

TEST REPORT

Report No.: BCTC2411327947-4E

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY
CO.,LTD

Product Name: Smart Phone

Test Model: C59

Tested Date: 2024-11-22 to 2025-02-25

Issued Date: 2025-02-25

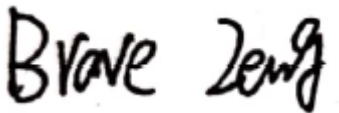
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2ANMU-24152

Product Name: Smart Phone
Trademark: OUKITEL
Model/Type reference: C59
C59 E, C59 S, C59 Pro, C59 Plus, C59 Ultra, C59 GT
Prepared For: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
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Sample Received Date: 2024-11-22
Sample tested Date: 2024-11-22 to 2025-02-25
Issue Date: 2025-02-25
Report No.: BCTC2411327947-4E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

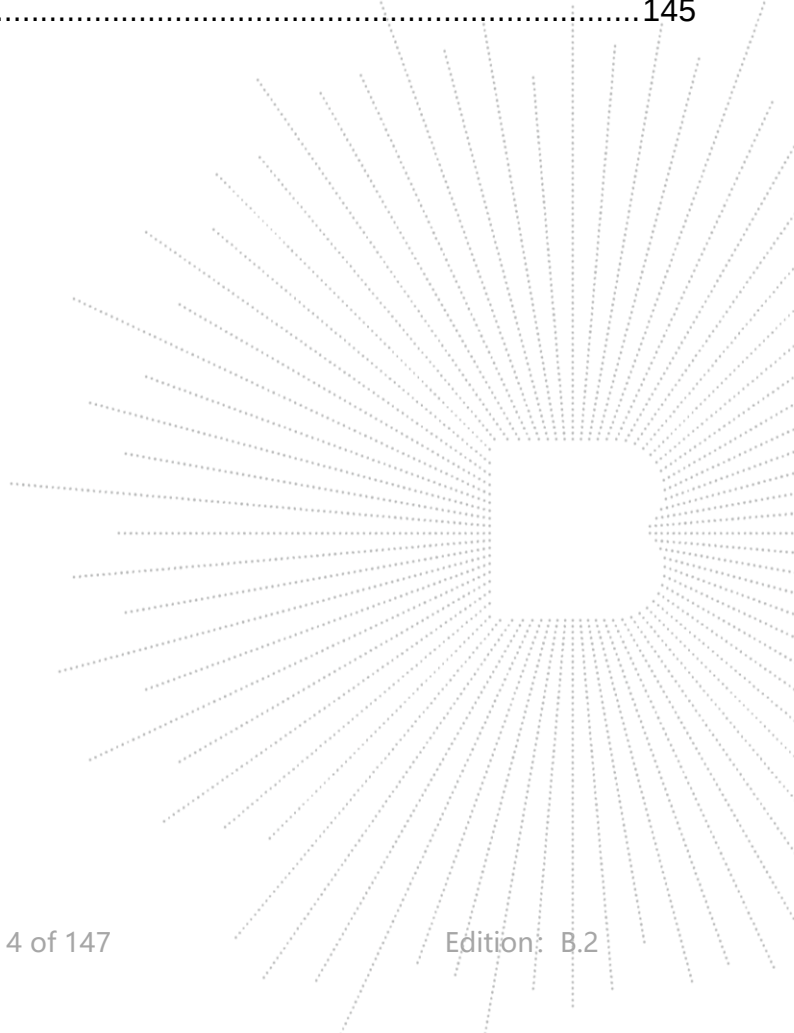
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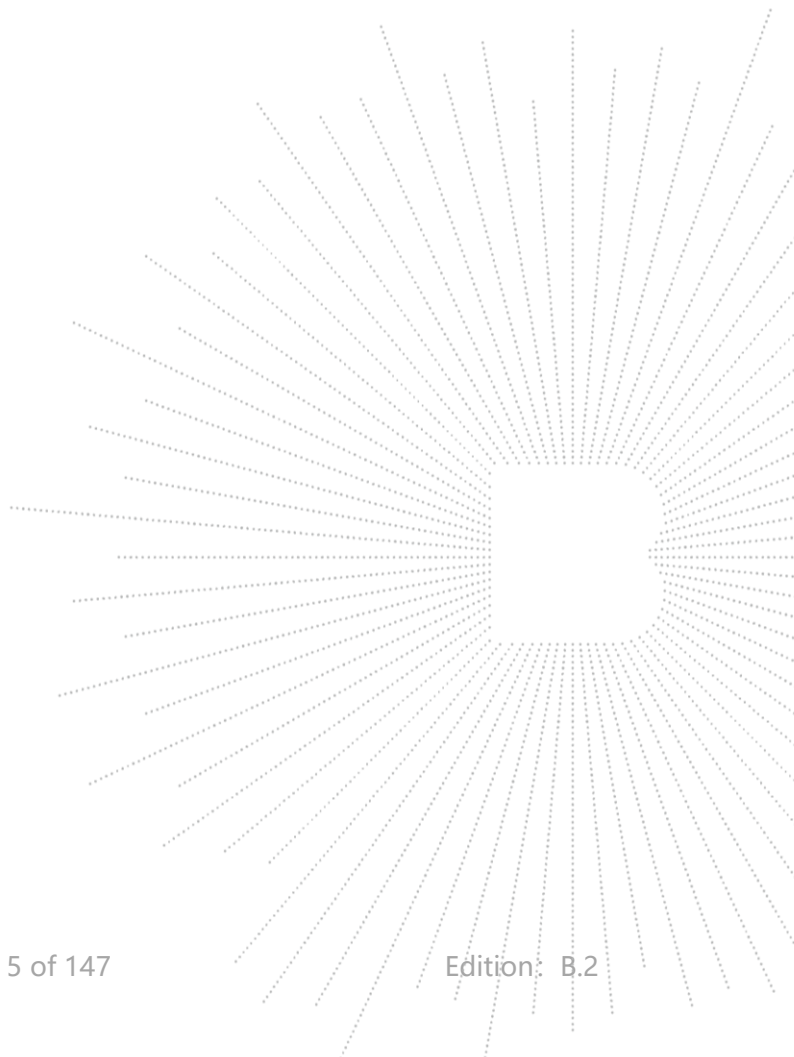
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2411327947-4E	2025-02-25	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	C59 C59 E, C59 S, C59 Pro, C59 Plus, C59 Ultra, C59 GT
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	SC6030_U_MB_V1.0.1
Software Version:	OUKITELE_C59_EEA_V05
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; 4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ;
Number Of Channel	1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna 0.82 dBi
Antenna Gain:	Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 9V from Adapter/ DC 3.9V from battery
Adapter Information:	Model: HJ-PD18W-US Input: 100-240V~ 50/60Hz 0.6A Output: 5.0V = 3.0A 15.0W OR 9.0V = 2.0A 18.0W OR 12.0V = 1.5A 18.0W MAX

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

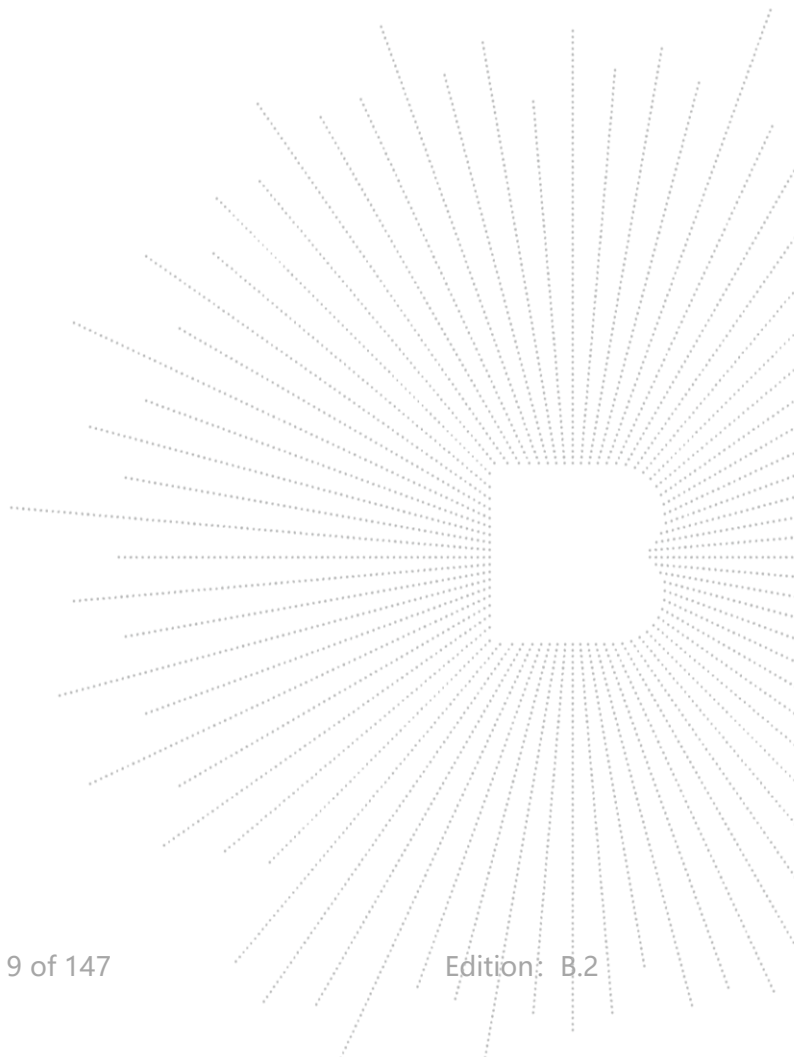
4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEL	C59	N/A	EUT
E-2	Adapter	N/A	HJ-PD18W-US	N/A	Auxiliary
E-3	TF card	SanDisk	32G	---	---

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.4 Channel List

5.1G

802.11a/n/ac (20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

5.8G

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	Link

Note:

1. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
2. We're testing antenna A data.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

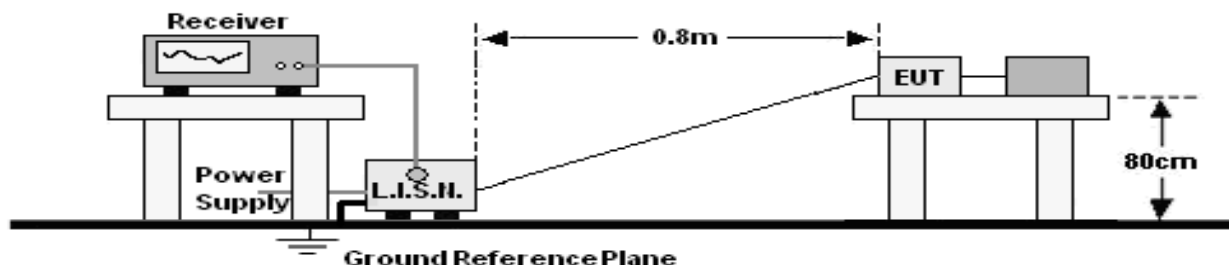
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	Nov 11, 2024	Nov 10, 2025
Radio frequency control box	MAIWEI	MW200-RFC B	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

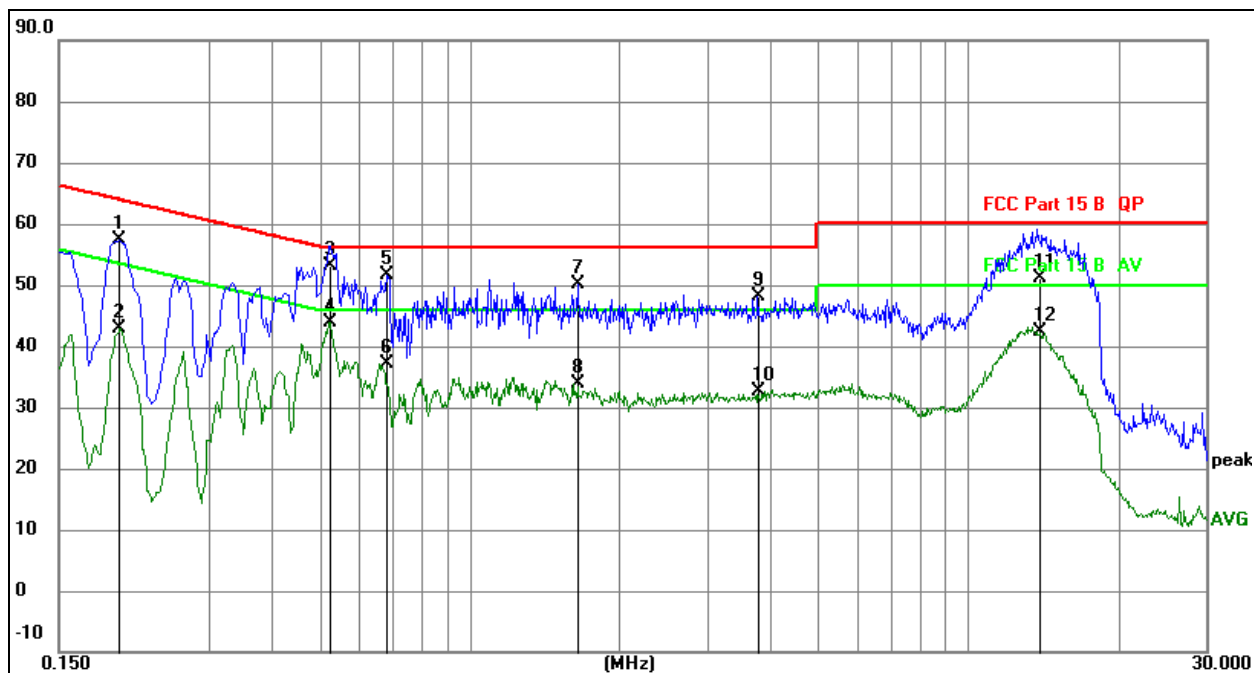
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

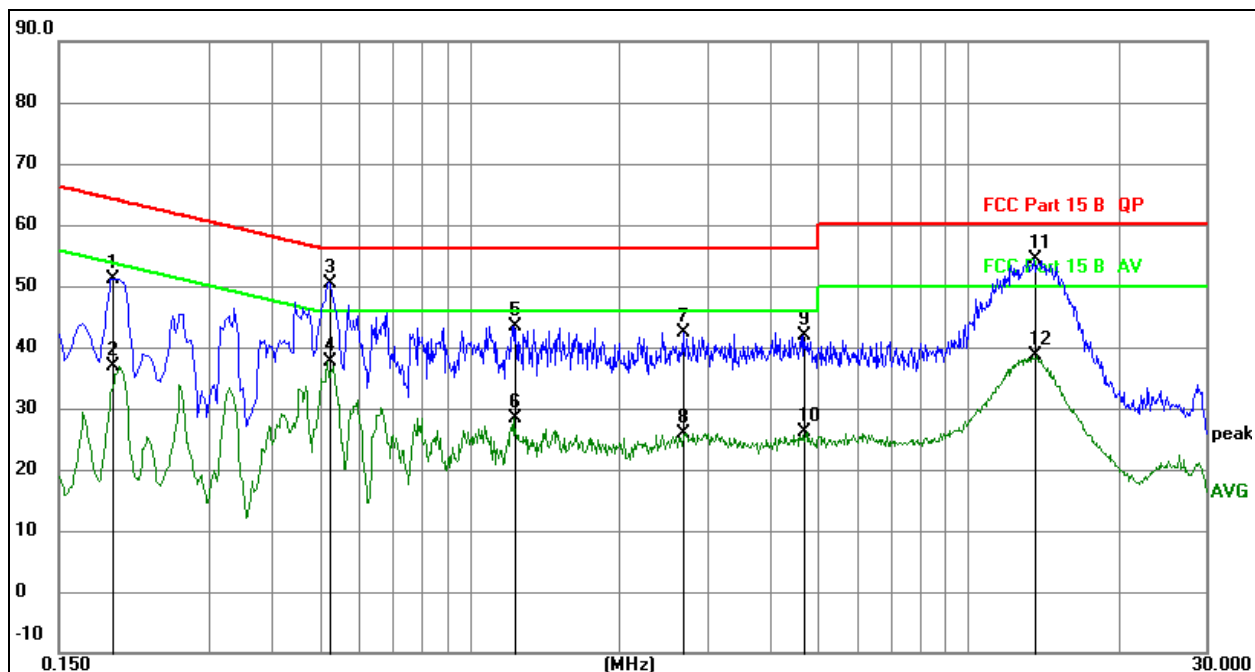


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1986	37.19	20.07	57.26	63.67	-6.41	QP
2		0.1986	22.85	20.07	42.92	53.67	-10.75	AVG
3		0.5240	33.16	20.08	53.24	56.00	-2.76	QP
4	*	0.5240	23.74	20.08	43.82	46.00	-2.18	AVG
5		0.6826	31.62	20.09	51.71	56.00	-4.29	QP
6		0.6826	17.05	20.09	37.14	46.00	-8.86	AVG
7		1.6450	30.14	20.10	50.24	56.00	-5.76	QP
8		1.6450	13.70	20.10	33.80	46.00	-12.20	AVG
9		3.7794	28.02	20.14	48.16	56.00	-7.84	QP
10		3.7794	12.45	20.14	32.59	46.00	-13.41	AVG
11		13.8430	30.78	20.28	51.06	60.00	-8.94	QP
12		13.8430	22.09	20.28	42.37	50.00	-7.63	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



Remark:

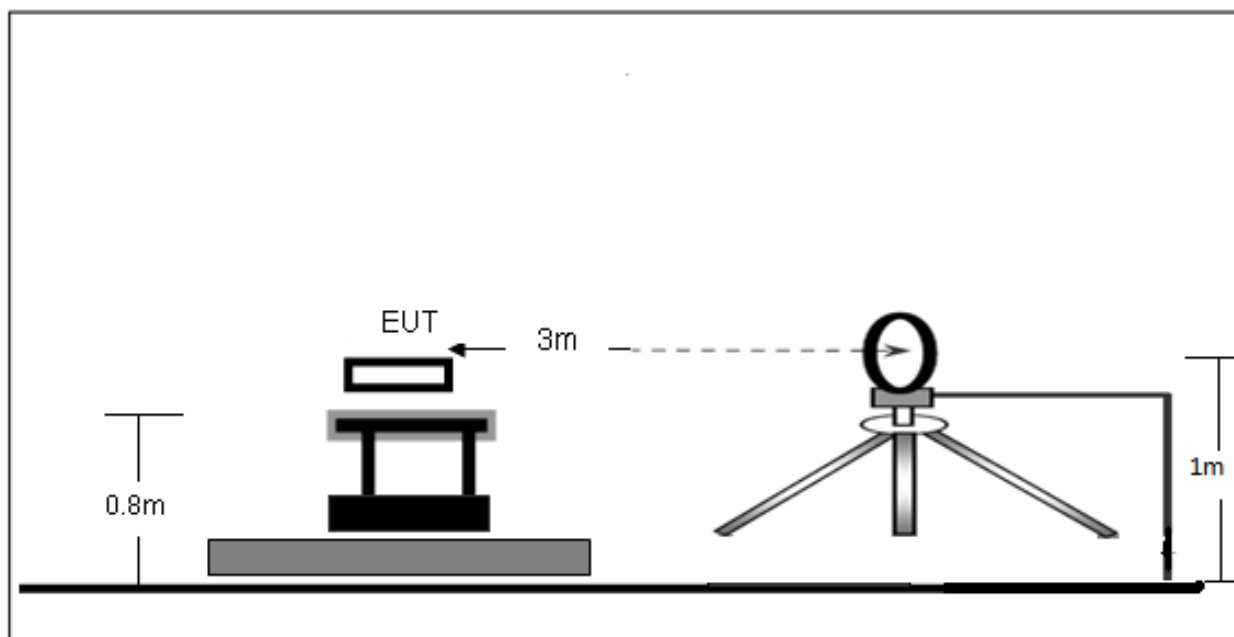
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1914	31.11	20.07	51.18	63.98	-12.80	QP
2		0.1914	16.77	20.07	36.84	53.98	-17.14	AVG
3	*	0.5235	30.42	20.08	50.50	56.00	-5.50	QP
4		0.5235	17.55	20.08	37.63	46.00	-8.37	AVG
5		1.2300	23.38	20.09	43.47	56.00	-12.53	QP
6		1.2300	8.26	20.09	28.35	46.00	-17.65	AVG
7		2.6880	22.29	20.11	42.40	56.00	-13.60	QP
8		2.6880	5.67	20.11	25.78	46.00	-20.22	AVG
9		4.6770	21.83	20.14	41.97	56.00	-14.03	QP
10		4.6770	5.89	20.14	26.03	46.00	-19.97	AVG
11		13.5870	34.08	20.27	54.35	60.00	-5.65	QP
12		13.5870	18.25	20.27	38.52	50.00	-11.48	AVG

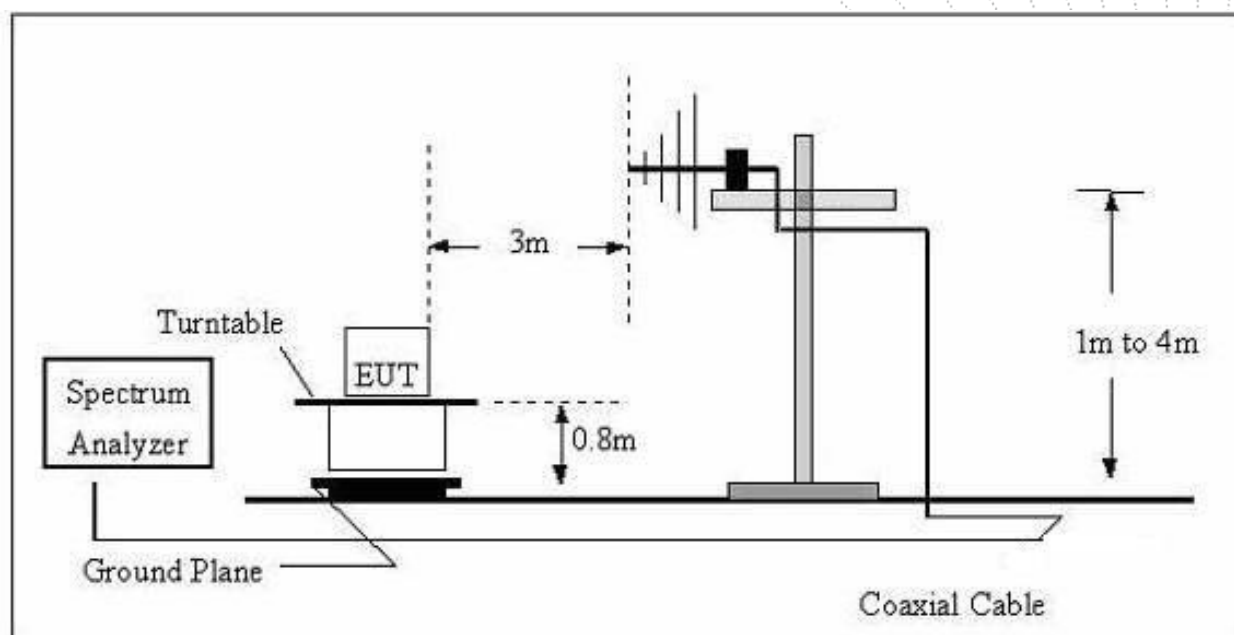
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

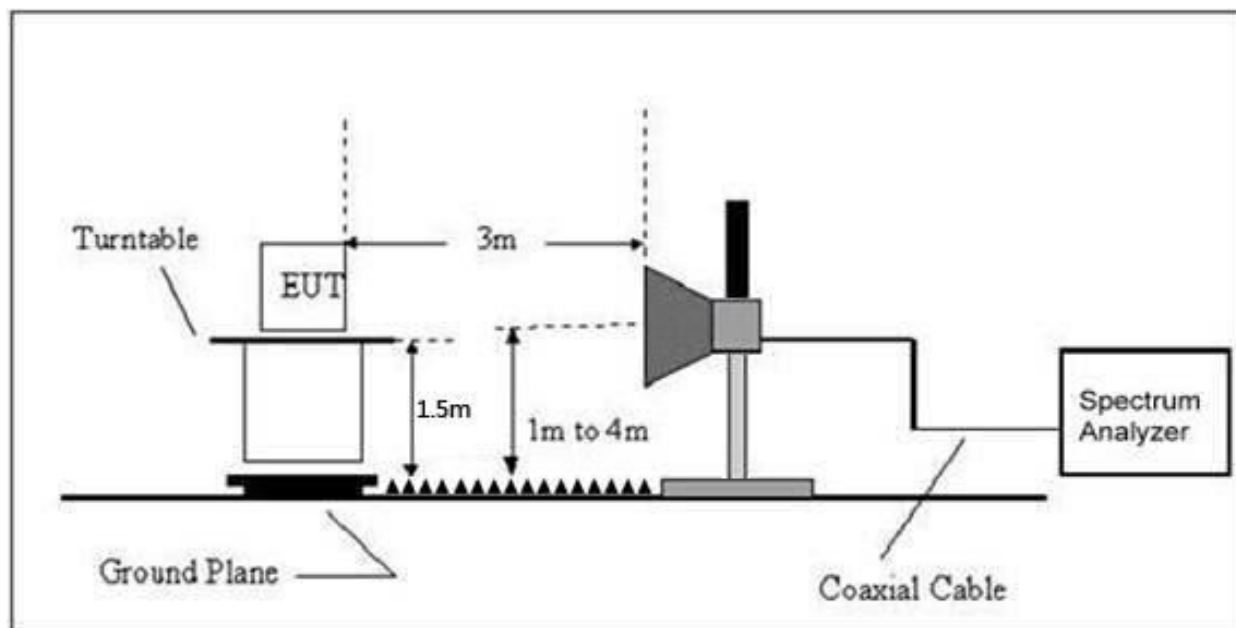
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

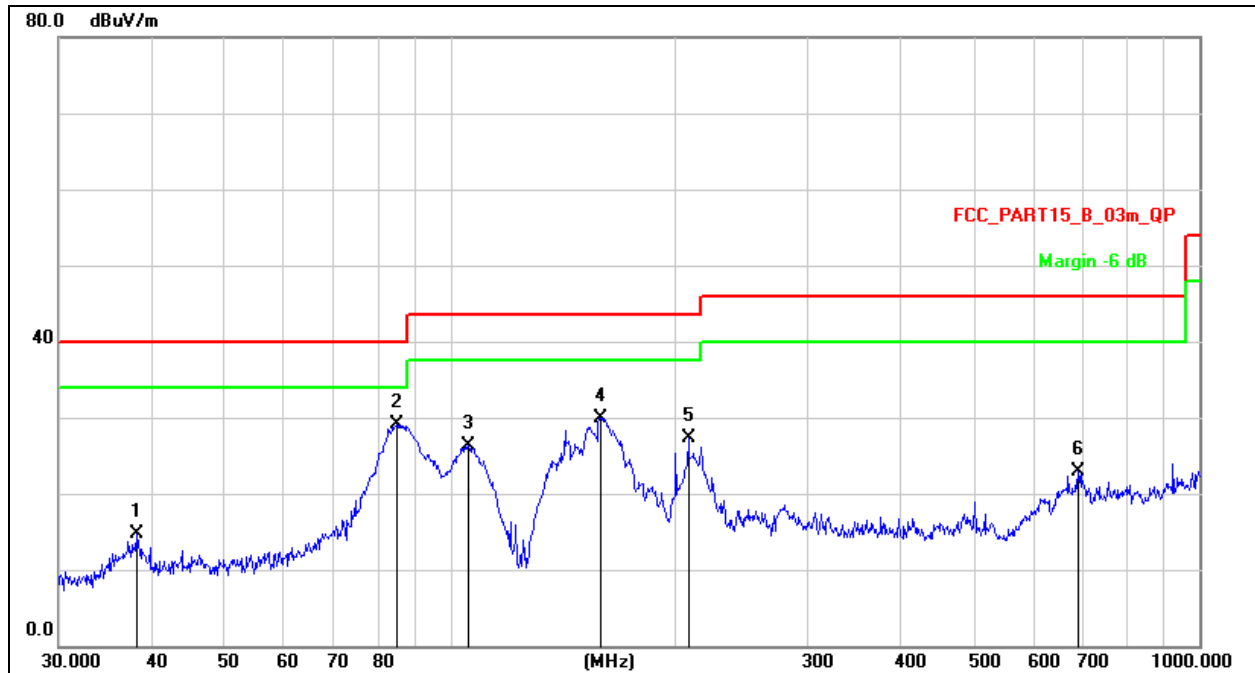
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

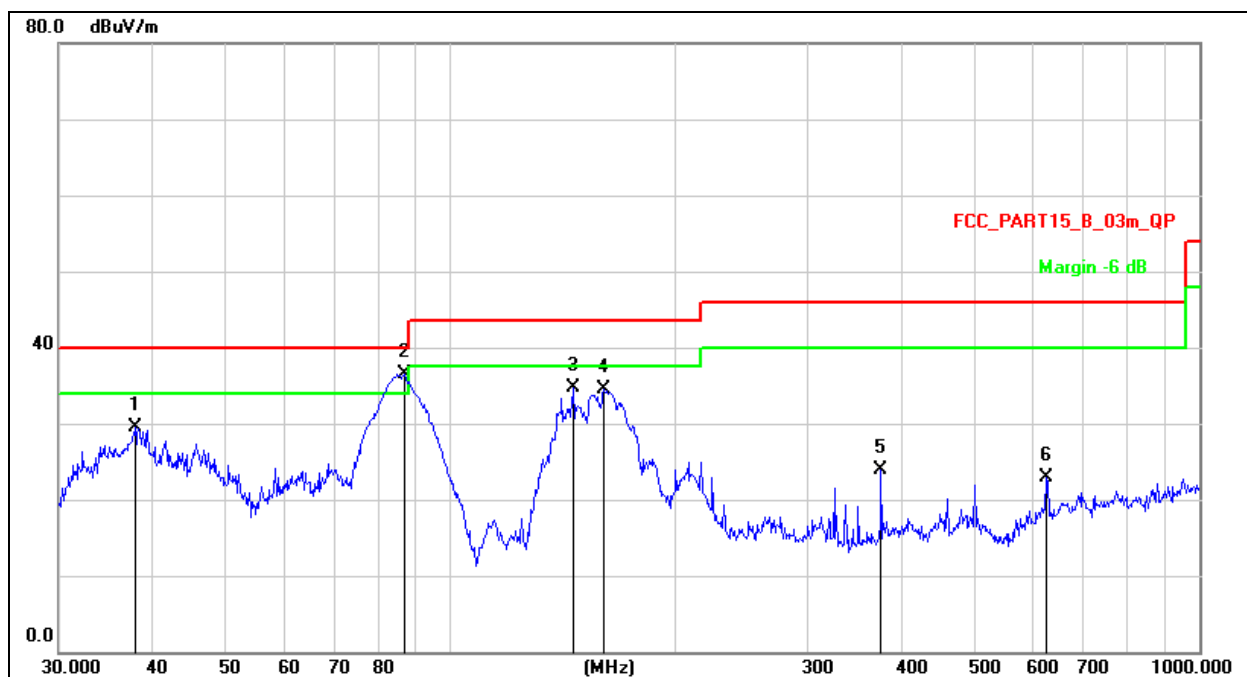


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		38.0783	29.75	-15.09	14.66	40.00	-25.34	QP
2	*	84.9995	47.77	-18.58	29.19	40.00	-10.81	QP
3		105.6415	42.59	-16.32	26.27	43.50	-17.23	QP
4		158.6677	48.77	-18.79	29.98	43.50	-13.52	QP
5		207.8501	42.76	-15.50	27.26	43.50	-16.24	QP
6		689.5644	28.66	-5.80	22.86	46.00	-23.14	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		37.9450	44.55	-15.12	29.43	40.00	-10.57	QP
2	*	86.8068	54.69	-18.15	36.54	40.00	-3.46	QP
3		145.8611	53.75	-19.14	34.61	43.50	-8.89	QP
4		160.3456	53.21	-18.66	34.55	43.50	-8.95	QP
5		375.9385	35.07	-11.15	23.92	46.00	-22.08	QP
6		625.0780	29.48	-6.59	22.89	46.00	-23.11	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.083	73.68	-20.73	52.95	68.2	-15.25	PK
Vertical	4434.083	59.40	-20.73	38.66	54	-15.34	AV
Vertical	10360.117	60.28	-9.36	50.92	68.2	-17.28	PK
Vertical	10360.117	49.13	-9.36	39.77	54	-14.23	AV
Vertical	15540.118	63.70	-7.84	55.86	74	-18.14	PK
Vertical	15540.118	49.91	-7.84	42.07	54	-11.93	AV
Horizontal	4434.041	71.47	-20.73	50.74	68.2	-17.46	PK
Horizontal	4434.041	59.62	-20.73	38.89	54	-15.11	AV
Horizontal	10360.021	63.80	-9.36	54.44	68.2	-13.76	PK
Horizontal	10360.021	49.88	-9.36	40.52	54	-13.48	AV
Horizontal	15540.031	61.01	-7.84	53.17	74	-20.83	PK
Horizontal	15540.031	49.55	-7.84	41.71	54	-12.29	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.093	73.63	-20.42	53.21	74	-20.79	PK
Vertical	4592.093	59.29	-20.42	38.88	54	-15.12	AV
Vertical	10400.064	61.54	-9.30	52.24	68.2	-15.96	PK
Vertical	10400.064	49.08	-9.30	39.78	54	-14.22	AV
Vertical	15600.074	63.88	-7.82	56.06	74	-17.94	PK
Vertical	15600.074	49.20	-7.82	41.38	54	-12.62	AV
Horizontal	4592.006	71.48	-20.42	51.06	74	-22.94	PK
Horizontal	4592.006	59.59	-20.42	39.17	54	-14.83	AV
Horizontal	10400.100	60.98	-9.30	51.68	68.2	-16.52	PK
Horizontal	10400.100	49.23	-9.30	39.93	54	-14.07	AV
Horizontal	15600.024	60.84	-7.82	53.02	74	-20.98	PK
Horizontal	15600.024	49.45	-7.82	41.63	54	-12.37	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.049	71.65	-20.12	51.53	74	-22.47	PK
Vertical	4739.049	59.29	-20.12	39.17	54	-14.83	AV
Vertical	10480.172	62.82	-9.18	53.64	68.2	-14.56	PK
Vertical	10480.172	49.44	-9.18	40.26	54	-13.74	AV
Vertical	15720.125	61.72	-7.78	53.94	74	-20.06	PK
Vertical	15720.125	49.47	-7.78	41.69	54	-12.31	AV
Horizontal	4739.128	74.02	-20.12	53.90	74	-20.10	PK
Horizontal	4739.128	59.32	-20.12	39.20	54	-14.80	AV
Horizontal	10480.035	63.95	-9.18	54.77	68.2	-13.43	PK
Horizontal	10480.035	49.75	-9.18	40.57	54	-13.43	AV
Horizontal	15720.028	60.04	-7.78	52.26	74	-21.74	PK
Horizontal	15720.028	49.34	-7.78	41.56	54	-12.44	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.035	73.43	-20.73	52.70	68.2	-15.50	PK
Vertical	4434.035	59.14	-20.73	38.41	54	-15.59	AV
Vertical	10360.002	61.47	-9.36	52.11	68.2	-16.09	PK
Vertical	10360.002	49.77	-9.36	40.41	54	-13.59	AV
Vertical	15540.147	63.28	-7.84	55.44	74	-18.56	PK
Vertical	15540.147	49.67	-7.84	41.83	54	-12.17	AV
Horizontal	4434.110	73.80	-20.73	53.07	68.2	-15.13	PK
Horizontal	4434.110	59.47	-20.73	38.73	54	-15.27	AV
Horizontal	10360.091	61.98	-9.36	52.62	68.2	-15.58	PK
Horizontal	10360.091	49.79	-9.36	40.43	54	-13.57	AV
Horizontal	15540.148	63.68	-7.84	55.84	74	-18.16	PK
Horizontal	15540.148	49.64	-7.84	41.80	54	-12.20	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.096	72.59	-20.42	52.18	74	-21.82	PK
Vertical	4592.096	59.48	-20.42	39.06	54	-14.94	AV
Vertical	10400.173	62.51	-9.30	53.21	68.2	-14.99	PK
Vertical	10400.173	49.18	-9.30	39.88	54	-14.12	AV
Vertical	15600.084	60.47	-7.82	52.65	74	-21.35	PK
Vertical	15600.084	49.79	-7.82	41.97	54	-12.03	AV
Horizontal	4592.147	70.01	-20.42	49.60	74	-24.40	PK
Horizontal	4592.147	59.22	-20.42	38.80	54	-15.20	AV
Horizontal	10400.022	60.72	-9.30	51.42	68.2	-16.78	PK
Horizontal	10400.022	49.19	-9.30	39.89	54	-14.11	AV
Horizontal	15600.165	60.72	-7.82	52.90	74	-21.10	PK
Horizontal	15600.165	49.11	-7.82	41.29	54	-12.71	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.121	73.35	-20.12	53.23	74	-20.77	PK
Vertical	4739.121	59.45	-20.12	39.33	54	-14.67	AV
Vertical	10480.114	63.01	-9.18	53.83	68.2	-14.37	PK
Vertical	10480.114	49.17	-9.18	39.99	54	-14.01	AV
Vertical	15720.081	63.35	-7.78	55.57	74	-18.43	PK
Vertical	15720.081	49.93	-7.78	42.15	54	-11.85	AV
Horizontal	4739.086	70.66	-20.12	50.54	74	-23.46	PK
Horizontal	4739.086	59.91	-20.12	39.79	54	-14.21	AV
Horizontal	10480.128	61.61	-9.18	52.43	68.2	-15.77	PK
Horizontal	10480.128	49.99	-9.18	40.81	54	-13.19	AV
Horizontal	15720.162	63.95	-7.78	56.17	74	-17.83	PK
Horizontal	15720.162	49.22	-7.78	41.44	54	-12.56	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.032	72.92	-20.73	52.18	68.2	-16.02	PK
Vertical	4434.032	59.05	-20.73	38.32	54	-15.68	AV
Vertical	10380.068	64.37	-9.33	55.04	68.2	-13.16	PK
Vertical	10380.068	49.29	-9.33	39.96	54	-14.04	AV
Vertical	15570.054	61.58	-7.83	53.75	74	-20.25	PK
Vertical	15570.054	49.31	-7.83	41.48	54	-12.52	AV
Horizontal	4434.156	72.81	-20.73	52.08	74	-21.92	PK
Horizontal	4434.156	59.68	-20.73	38.95	54	-15.05	AV
Horizontal	10380.118	60.40	-9.33	51.07	68.2	-17.13	PK
Horizontal	10380.118	49.29	-9.33	39.96	54	-14.04	AV
Horizontal	15570.091	61.15	-7.83	53.32	74	-20.68	PK
Horizontal	15570.091	49.50	-7.83	41.67	54	-12.33	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.126	71.18	-20.12	51.06	68.2	-17.14	PK
Vertical	4739.126	59.31	-20.12	39.19	54	-14.81	AV
Vertical	10460.024	62.74	-9.21	53.53	68.2	-14.67	PK
Vertical	10460.024	49.58	-9.21	40.37	54	-13.63	AV
Vertical	15690.174	64.13	-7.79	56.34	74	-17.66	PK
Vertical	15690.174	49.14	-7.79	41.35	54	-12.65	AV
Horizontal	4739.088	71.56	-20.12	51.44	68.2	-16.76	PK
Horizontal	4739.088	59.11	-20.12	38.99	54	-15.01	AV
Horizontal	10460.020	62.36	-9.21	53.15	68.2	-15.05	PK
Horizontal	10460.020	49.65	-9.21	40.44	54	-13.56	AV
Horizontal	15690.088	62.45	-7.79	54.66	74	-19.34	PK
Horizontal	15690.088	49.23	-7.79	41.44	54	-12.56	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.094	70.13	-20.73	49.40	68.2	-18.80	PK
Vertical	4434.094	59.19	-20.73	38.46	54	-15.54	AV
Vertical	10360.111	64.51	-9.36	55.15	68.2	-13.05	PK
Vertical	10360.111	49.79	-9.36	40.43	54	-13.57	AV
Vertical	15540.067	60.70	-7.84	52.86	74	-21.14	PK
Vertical	15540.067	49.21	-7.84	41.37	54	-12.63	AV
Horizontal	4434.076	73.38	-20.73	52.65	68.2	-15.55	PK
Horizontal	4434.076	59.12	-20.73	38.39	54	-15.61	AV
Horizontal	10360.180	60.02	-9.36	50.66	68.2	-17.54	PK
Horizontal	10360.180	49.07	-9.36	39.71	54	-14.29	AV
Horizontal	15540.137	60.32	-7.84	52.48	74	-21.52	PK
Horizontal	15540.137	49.55	-7.84	41.71	54	-12.29	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.180	72.41	-20.42	51.99	74	-22.01	PK
Vertical	4592.180	59.15	-20.42	38.73	54	-15.27	AV
Vertical	10400.082	61.30	-9.30	52.00	68.2	-16.20	PK
Vertical	10400.082	49.92	-9.30	40.62	54	-13.38	AV
Vertical	15600.052	63.27	-7.82	55.45	74	-18.55	PK
Vertical	15600.052	49.61	-7.82	41.79	54	-12.21	AV
Horizontal	4592.059	70.89	-20.42	50.47	74	-23.53	PK
Horizontal	4592.059	59.98	-20.42	39.57	54	-14.43	AV
Horizontal	10400.059	60.04	-9.30	50.74	68.2	-17.46	PK
Horizontal	10400.059	49.13	-9.30	39.83	54	-14.17	AV
Horizontal	15600.084	64.73	-7.82	56.91	74	-17.09	PK
Horizontal	15600.084	49.79	-7.82	41.97	54	-12.03	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.042	71.33	-20.12	51.21	74	-22.79	PK
Vertical	4739.042	59.79	-20.12	39.67	54	-14.33	AV
Vertical	10480.040	64.69	-9.18	55.51	68.2	-12.69	PK
Vertical	10480.040	49.79	-9.18	40.61	54	-13.39	AV
Vertical	15720.066	60.66	-7.78	52.88	74	-21.12	PK
Vertical	15720.066	49.08	-7.78	41.30	54	-12.70	AV
Horizontal	4739.087	72.26	-20.12	52.14	74	-21.86	PK
Horizontal	4739.087	59.66	-20.12	39.54	54	-14.46	AV
Horizontal	10480.124	61.45	-9.18	52.27	68.2	-15.93	PK
Horizontal	10480.124	49.06	-9.18	39.88	54	-14.12	AV
Horizontal	15720.177	64.71	-7.78	56.93	74	-17.07	PK
Horizontal	15720.177	49.54	-7.78	41.76	54	-12.24	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.054	70.69	-20.73	49.95	68.2	-18.25	PK
Vertical	4434.054	59.19	-20.73	38.46	54	-15.54	AV
Vertical	10380.146	61.36	-9.33	52.03	68.2	-16.17	PK
Vertical	10380.146	49.38	-9.33	40.05	54	-13.95	AV
Vertical	15570.163	62.71	-7.83	54.88	74	-19.12	PK
Vertical	15570.163	49.04	-7.83	41.21	54	-12.79	AV
Horizontal	4434.000	72.32	-20.73	51.58	74	-22.42	PK
Horizontal	4434.000	59.41	-20.73	38.68	54	-15.32	AV
Horizontal	10380.188	61.80	-9.33	52.47	68.2	-15.73	PK
Horizontal	10380.188	49.84	-9.33	40.51	54	-13.49	AV
Horizontal	15570.042	64.40	-7.83	56.57	74	-17.43	PK
Horizontal	15570.042	49.49	-7.83	41.66	54	-12.34	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.066	70.94	-20.12	50.82	68.2	-17.38	PK
Vertical	4739.066	59.94	-20.12	39.82	54	-14.18	AV
Vertical	10460.079	61.11	-9.21	51.90	68.2	-16.30	PK
Vertical	10460.079	49.58	-9.21	40.37	54	-13.63	AV
Vertical	15690.152	63.18	-7.79	55.39	74	-18.61	PK
Vertical	15690.152	49.52	-7.79	41.73	54	-12.27	AV
Horizontal	4739.059	70.96	-20.12	50.84	68.2	-17.36	PK
Horizontal	4739.059	59.60	-20.12	39.48	54	-14.52	AV
Horizontal	10460.189	63.95	-9.21	54.74	68.2	-13.46	PK
Horizontal	10460.189	49.69	-9.21	40.48	54	-13.52	AV
Horizontal	15690.068	61.60	-7.79	53.81	74	-20.19	PK
Horizontal	15690.068	49.28	-7.79	41.49	54	-12.51	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac 80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5210 MHz)-Above 1G							
Vertical	4434.145	74.56	-20.73	53.83	68.2	-14.37	PK
Vertical	4434.145	59.08	-20.73	38.34	54	-15.66	AV
Vertical	10420.167	61.70	-9.27	52.43	68.2	-15.77	PK
Vertical	10420.167	49.80	-9.27	40.53	54	-13.47	AV
Vertical	15630.032	64.41	-7.81	56.60	74	-17.40	PK
Vertical	15630.032	49.05	-7.81	41.24	54	-12.76	AV
Horizontal	4434.193	72.43	-20.73	51.70	68.2	-16.50	PK
Horizontal	4434.193	59.83	-20.73	39.10	54	-14.90	AV
Horizontal	10420.062	41.63	9.27	50.90	68.2	-17.30	PK
Horizontal	10420.062	29.89	9.27	39.16	54	-14.84	AV
Horizontal	15630.009	60.87	-7.81	53.06	74	-20.94	PK
Horizontal	15630.009	49.67	-7.81	41.86	54	-12.14	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.106	72.59	-20.24	52.35	74	-21.65	PK
Vertical	4679.106	59.10	-20.24	38.86	54	-15.14	AV
Vertical	11490.042	62.13	-8.79	53.34	68.2	-14.86	PK
Vertical	11490.042	49.11	-8.79	40.32	54	-13.68	AV
Vertical	17235.180	59.45	-3.18	56.27	68.2	-11.93	PK
Vertical	17235.180	44.83	-3.18	41.65	54	-12.35	AV
Horizontal	4679.136	70.27	-20.73	49.54	74	-24.46	PK
Horizontal	4679.136	59.32	-20.73	38.59	54	-15.41	AV
Horizontal	11490.108	62.92	-8.79	54.13	68.2	-14.07	PK
Horizontal	11490.108	49.42	-8.79	40.63	54	-13.37	AV
Horizontal	17235.144	57.40	-3.18	54.22	68.2	-13.98	PK
Horizontal	17235.144	44.72	-3.18	41.54	54	-12.46	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.140	73.77	-20.42	53.36	74	-20.64	PK
Vertical	4592.140	59.77	-20.42	39.35	54	-14.65	AV
Vertical	11570.193	63.52	-8.86	54.66	68.2	-13.54	PK
Vertical	11570.193	49.35	-8.86	40.49	54	-13.51	AV
Vertical	17355.016	58.05	-2.52	55.53	68.2	-12.67	PK
Vertical	17355.016	44.37	-2.52	41.85	54	-12.15	AV
Horizontal	4592.011	74.95	-20.42	54.54	74	-19.46	PK
Horizontal	4592.011	59.65	-20.42	39.23	54	-14.77	AV
Horizontal	11570.192	62.84	-8.86	53.98	68.2	-14.22	PK
Horizontal	11570.192	49.38	-8.86	40.52	54	-13.48	AV
Horizontal	17355.174	58.80	-2.52	56.28	68.2	-11.92	PK
Horizontal	17355.174	44.82	-2.52	42.30	54	-11.70	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.094	74.59	-18.93	55.66	68.2	-12.54	PK
Vertical	6039.094	59.91	-18.93	40.98	54	-13.02	AV
Vertical	11650.010	60.50	-8.92	51.58	74	-22.42	PK
Vertical	11650.010	49.74	-8.92	40.82	54	-13.18	AV
Vertical	17475.121	59.27	-1.86	57.41	68.2	-10.79	PK
Vertical	17475.121	44.82	-1.86	42.96	54	-11.04	AV
Horizontal	6039.150	73.00	-18.93	54.07	68.2	-14.13	PK
Horizontal	6039.150	59.48	-18.93	40.55	54	-13.45	AV
Horizontal	11650.040	60.46	-8.92	51.54	74	-22.46	PK
Horizontal	11650.040	49.77	-8.92	40.85	54	-13.15	AV
Horizontal	17475.045	58.92	-1.86	57.06	68.2	-11.14	PK
Horizontal	17475.045	44.22	-1.86	42.36	54	-11.64	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.186	74.73	-20.24	54.49	74	-19.51	PK
Vertical	4679.186	59.61	-20.24	39.37	54	-14.63	AV
Vertical	11490.196	60.74	-8.79	51.95	68.2	-16.25	PK
Vertical	11490.196	49.69	-8.79	40.90	54	-13.10	AV
Vertical	17235.136	58.88	-3.18	55.70	68.2	-12.50	PK
Vertical	17235.136	44.48	-3.18	41.30	54	-12.70	AV
Horizontal	4679.138	73.65	-20.24	53.41	74	-20.59	PK
Horizontal	4679.138	59.13	-20.24	38.89	54	-15.11	AV
Horizontal	11490.045	60.41	-8.79	51.62	68.2	-16.58	PK
Horizontal	11490.045	49.92	-8.79	41.13	54	-12.87	AV
Horizontal	17235.021	55.23	-3.18	52.05	68.2	-16.15	PK
Horizontal	17235.021	44.09	-3.18	40.91	54	-13.09	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.107	72.36	-20.42	51.95	74	-22.05	PK
Vertical	4592.107	59.85	-20.42	39.43	54	-14.57	AV
Vertical	11570.019	63.78	-8.86	54.92	68.2	-13.28	PK
Vertical	11570.019	49.10	-8.86	40.24	54	-13.76	AV
Vertical	17355.114	55.85	-2.52	53.33	68.2	-14.87	PK
Vertical	17355.114	44.34	-2.52	41.82	54	-12.18	AV
Horizontal	4592.096	71.95	-20.42	51.53	74	-22.47	PK
Horizontal	4592.096	59.88	-20.42	39.47	54	-14.53	AV
Horizontal	11570.084	63.75	-8.86	54.89	68.2	-13.31	PK
Horizontal	11570.084	49.51	-8.86	40.65	54	-13.35	AV
Horizontal	17355.033	57.01	-2.52	54.49	68.2	-13.71	PK
Horizontal	17355.033	44.93	-2.52	42.41	54	-11.59	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.033	72.58	-18.93	53.65	68.2	-14.55	PK
Vertical	6039.033	59.56	-18.93	40.62	54	-13.38	AV
Vertical	11650.199	64.97	-8.92	56.05	74	-17.95	PK
Vertical	11650.199	49.13	-8.92	40.21	54	-13.79	AV
Vertical	17475.200	59.74	-1.86	57.88	68.2	-10.32	PK
Vertical	17475.200	45.00	-1.86	43.14	54	-10.86	AV
Horizontal	6039.005	73.14	-18.93	54.20	68.2	-14.00	PK
Horizontal	6039.005	59.07	-18.93	40.14	54	-13.86	AV
Horizontal	11650.054	64.46	-8.92	55.54	74	-18.46	PK
Horizontal	11650.054	49.63	-8.92	40.71	54	-13.29	AV
Horizontal	17475.177	56.14	-1.86	54.28	68.2	-13.92	PK
Horizontal	17475.177	44.71	-1.86	42.85	54	-11.15	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.097	71.60	-20.24	51.36	74	-22.64	PK
Vertical	4679.097	59.63	-20.24	39.39	54	-14.61	AV
Vertical	11510.062	60.75	-8.81	51.94	74	-22.06	PK
Vertical	11510.062	49.25	-8.81	40.44	54	-13.56	AV
Vertical	17265.066	55.34	-3.01	52.33	68.2	-15.87	PK
Vertical	17265.066	44.10	-3.01	41.09	54	-12.91	AV
Horizontal	4679.076	71.93	-20.24	51.69	74	-22.31	PK
Horizontal	4679.076	59.75	-20.24	39.51	54	-14.49	AV
Horizontal	11510.040	64.68	-8.81	55.87	74	-18.13	PK
Horizontal	11510.040	49.31	-8.81	40.50	54	-13.50	AV
Horizontal	17265.090	57.07	-3.01	54.06	68.2	-14.14	PK
Horizontal	17265.090	44.67	-3.01	41.66	54	-12.34	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.119	72.84	-18.93	53.91	68.2	-14.29	PK
Vertical	6039.119	59.43	-18.93	40.50	54	-13.50	AV
Vertical	11590.104	63.27	-8.87	54.40	74	-19.60	PK
Vertical	11590.104	49.76	-8.87	40.89	54	-13.11	AV
Vertical	17385.123	56.67	-2.35	54.32	68.2	-13.88	PK
Vertical	17385.123	44.98	-2.35	42.63	54	-11.37	AV
Horizontal	6039.134	71.49	-18.93	52.56	68.2	-15.64	PK
Horizontal	6039.134	59.08	-18.93	40.15	54	-13.85	AV
Horizontal	11590.136	61.94	-8.87	53.07	74	-20.93	PK
Horizontal	11590.136	49.24	-8.87	40.37	54	-13.63	AV
Horizontal	17385.190	55.18	-2.35	52.83	68.2	-15.37	PK
Horizontal	17385.190	44.03	-2.35	41.68	54	-12.32	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode: TX (5.8G) --802.11ac-HT20

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.005	71.59	-20.24	51.35	74	-22.65	PK
Vertical	4679.005	59.14	-20.24	38.90	54	-15.10	AV
Vertical	11490.041	64.40	-8.79	55.61	68.2	-12.59	PK
Vertical	11490.041	49.69	-8.79	40.90	54	-13.10	AV
Vertical	17235.191	58.22	-3.18	55.04	68.2	-13.16	PK
Vertical	17235.191	44.77	-3.18	41.59	54	-12.41	AV
Horizontal	4679.150	70.13	-20.24	49.89	74	-24.11	PK
Horizontal	4679.150	59.27	-20.24	39.03	54	-14.97	AV
Horizontal	11490.132	64.68	-8.79	55.89	68.2	-12.31	PK
Horizontal	11490.132	49.85	-8.79	41.06	54	-12.94	AV
Horizontal	17235.153	57.42	-3.18	54.24	68.2	-13.96	PK
Horizontal	17235.153	44.81	-3.18	41.63	54	-12.37	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.023	72.44	-20.42	52.02	74	-21.98	PK
Vertical	4592.023	59.53	-20.42	39.11	54	-14.89	AV
Vertical	11570.052	63.33	-8.86	54.47	68.2	-13.73	PK
Vertical	11570.052	49.62	-8.86	40.76	54	-13.24	AV
Vertical	17355.147	59.41	-2.52	56.89	68.2	-11.31	PK
Vertical	17355.147	44.73	-2.52	42.21	54	-11.79	AV
Horizontal	4592.090	74.93	-20.42	54.51	74	-19.49	PK
Horizontal	4592.090	59.25	-20.42	38.84	54	-15.16	AV
Horizontal	11570.008	60.09	-8.86	51.23	68.2	-16.97	PK
Horizontal	11570.008	49.16	-8.86	40.30	54	-13.70	AV
Horizontal	17355.186	55.97	-2.52	53.45	68.2	-14.75	PK
Horizontal	17355.186	44.31	-2.52	41.79	54	-12.21	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.014	73.98	-18.93	55.05	68.2	-13.15	PK
Vertical	6039.014	59.34	-18.93	40.41	54	-13.59	AV
Vertical	11650.097	61.77	-8.92	52.85	74	-21.15	PK
Vertical	11650.097	49.04	-8.92	40.12	54	-13.88	AV
Vertical	17475.183	58.34	-1.86	56.48	68.2	-11.72	PK
Vertical	17475.183	44.39	-1.86	42.53	54	-11.47	AV
Horizontal	6039.023	74.68	-18.93	55.75	68.2	-12.45	PK
Horizontal	6039.023	59.75	-18.93	40.82	54	-13.18	AV
Horizontal	11650.045	62.32	-8.92	53.40	74	-20.60	PK
Horizontal	11650.045	49.48	-8.92	40.56	54	-13.44	AV
Horizontal	17475.181	56.89	-1.86	55.03	68.2	-13.17	PK
Horizontal	17475.181	44.99	-1.86	43.13	54	-10.87	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.058	74.61	-20.24	54.36	74	-19.64	PK
Vertical	4679.058	59.53	-20.24	39.28	54	-14.72	AV
Vertical	11510.130	64.63	-8.81	55.82	74	-18.18	PK
Vertical	11510.130	49.60	-8.81	40.79	54	-13.21	AV
Vertical	17265.198	56.06	-3.01	53.05	68.2	-15.15	PK
Vertical	17265.198	44.37	-3.01	41.36	54	-12.64	AV
Horizontal	4679.093	74.00	-20.24	53.76	74	-20.24	PK
Horizontal	4679.093	59.48	-20.24	39.24	54	-14.76	AV
Horizontal	11510.170	64.60	-8.81	55.79	74	-18.21	PK
Horizontal	11510.170	49.26	-8.81	40.45	54	-13.55	AV
Horizontal	17265.060	55.59	-3.01	52.58	68.2	-15.62	PK
Horizontal	17265.060	44.34	-3.01	41.33	54	-12.67	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.040	73.07	-18.93	54.13	68.2	-14.07	PK
Vertical	6039.040	59.58	-18.93	40.65	54	-13.35	AV
Vertical	11590.149	61.77	-8.87	52.90	74	-21.10	PK
Vertical	11590.149	49.72	-8.87	40.85	54	-13.15	AV
Vertical	17385.049	55.63	-2.35	53.28	68.2	-14.92	PK
Vertical	17385.049	44.86	-2.35	42.51	54	-11.49	AV
Horizontal	6039.195	72.18	-18.93	53.25	68.2	-14.95	PK
Horizontal	6039.195	59.27	-18.93	40.34	54	-13.66	AV
Horizontal	11590.166	61.98	-8.87	53.11	74	-20.89	PK
Horizontal	11590.166	49.01	-8.87	40.14	54	-13.86	AV
Horizontal	17385.118	55.21	-2.35	52.86	68.2	-15.34	PK
Horizontal	17385.118	44.26	-2.35	41.91	54	-12.09	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11ac 80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.200	70.41	-20.24	50.17	74	-23.83	PK
Vertical	4679.200	59.54	-20.24	39.30	54	-14.70	AV
Vertical	11550.047	64.06	-8.84	55.22	74	-18.78	PK
Vertical	11550.047	49.54	-8.84	40.70	54	-13.30	AV
Vertical	17325.102	59.23	-2.68	56.55	68.2	-11.65	PK
Vertical	17325.102	44.10	-2.68	41.42	54	-12.58	AV
Horizontal	4679.183	71.18	-20.24	50.94	74	-23.06	PK
Horizontal	4679.183	59.66	-20.24	39.42	54	-14.58	AV
Horizontal	11550.006	61.76	-8.84	52.92	74	-21.08	PK
Horizontal	11550.006	49.82	-8.84	40.98	54	-13.02	AV
Horizontal	17325.060	56.72	-2.68	54.04	68.2	-14.16	PK
Horizontal	17325.060	44.88	-2.68	42.20	54	-11.80	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test Procedure

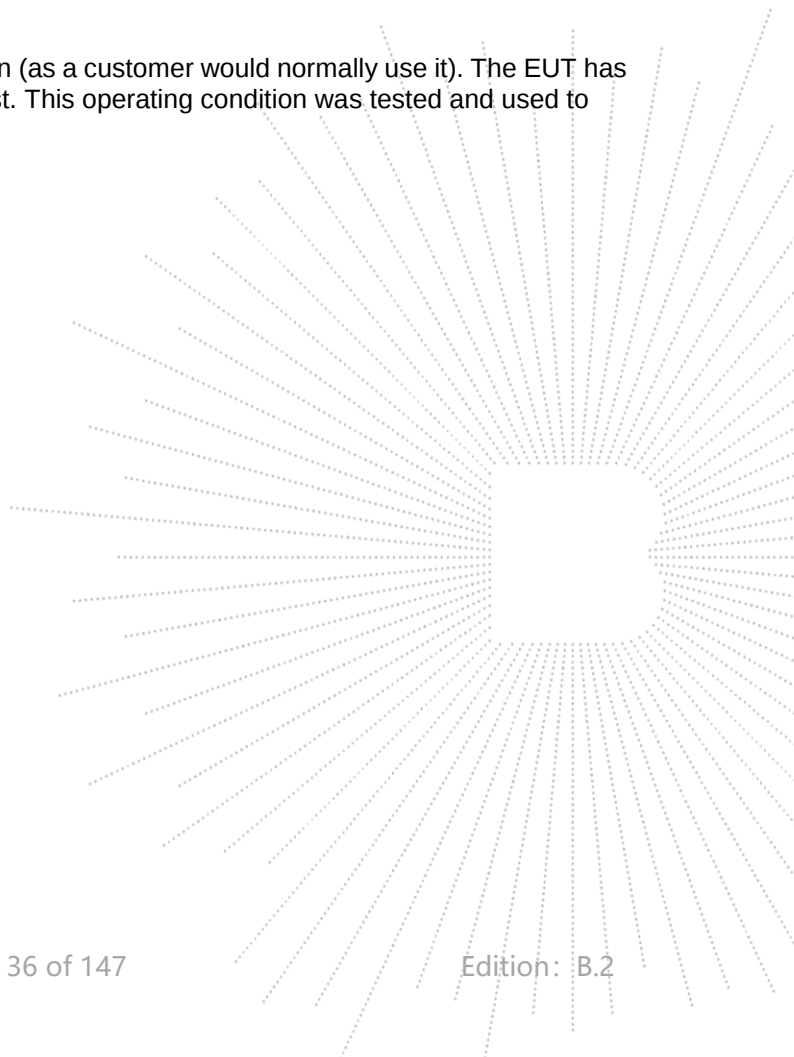
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



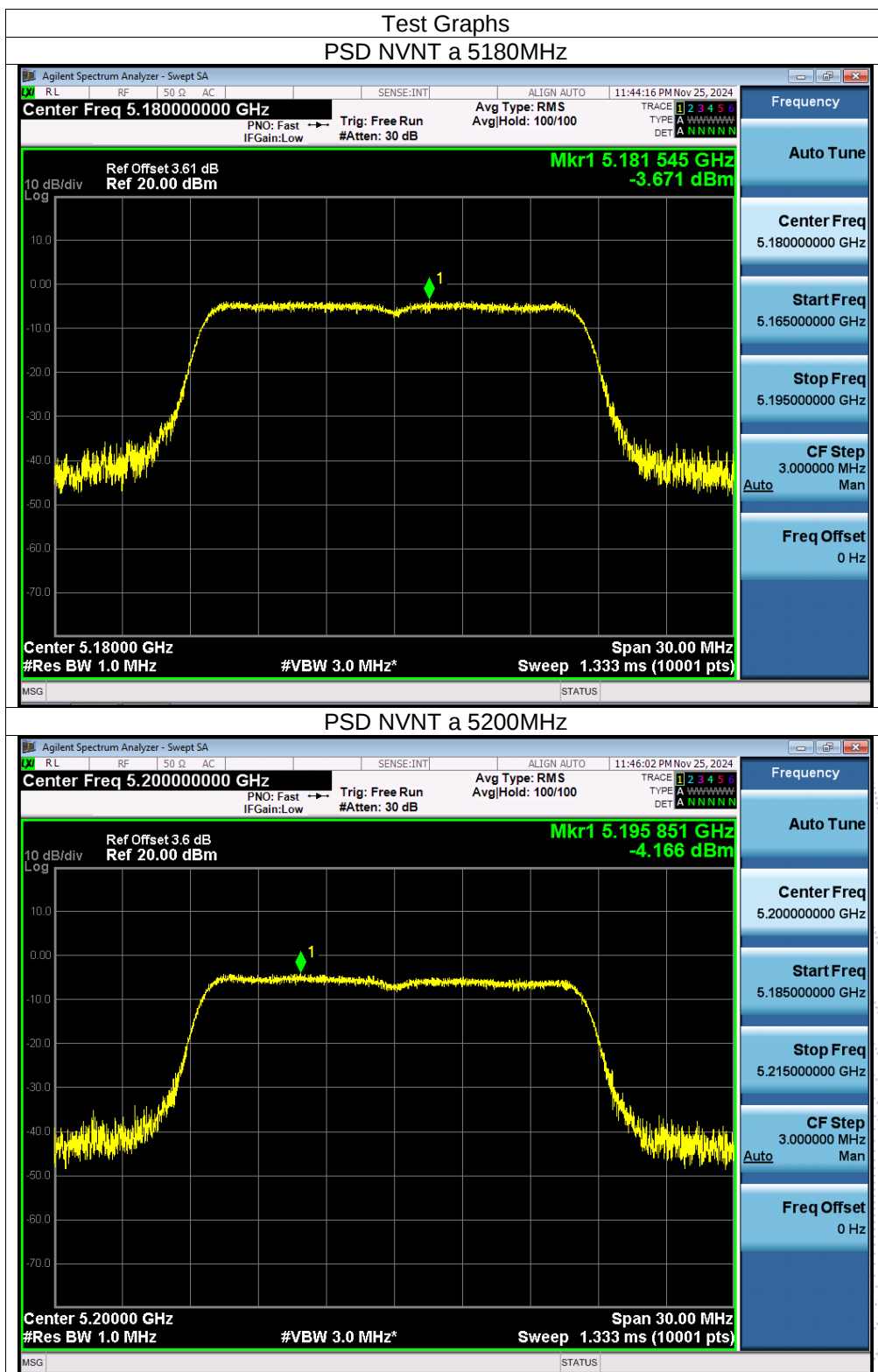
8.5 Test Result

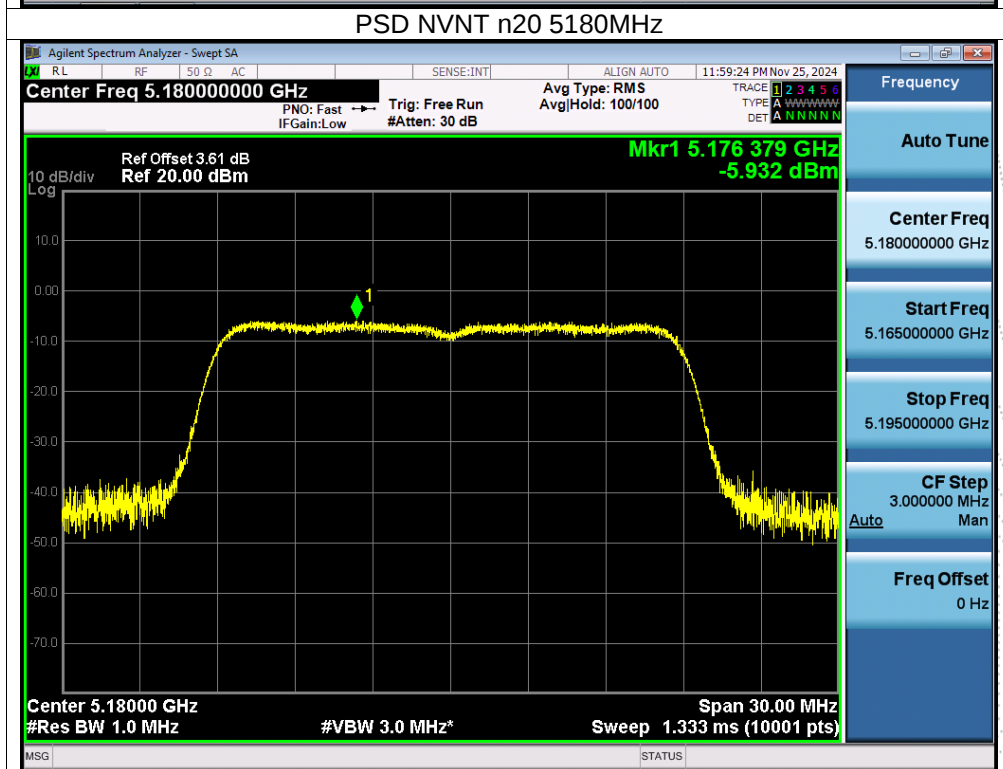
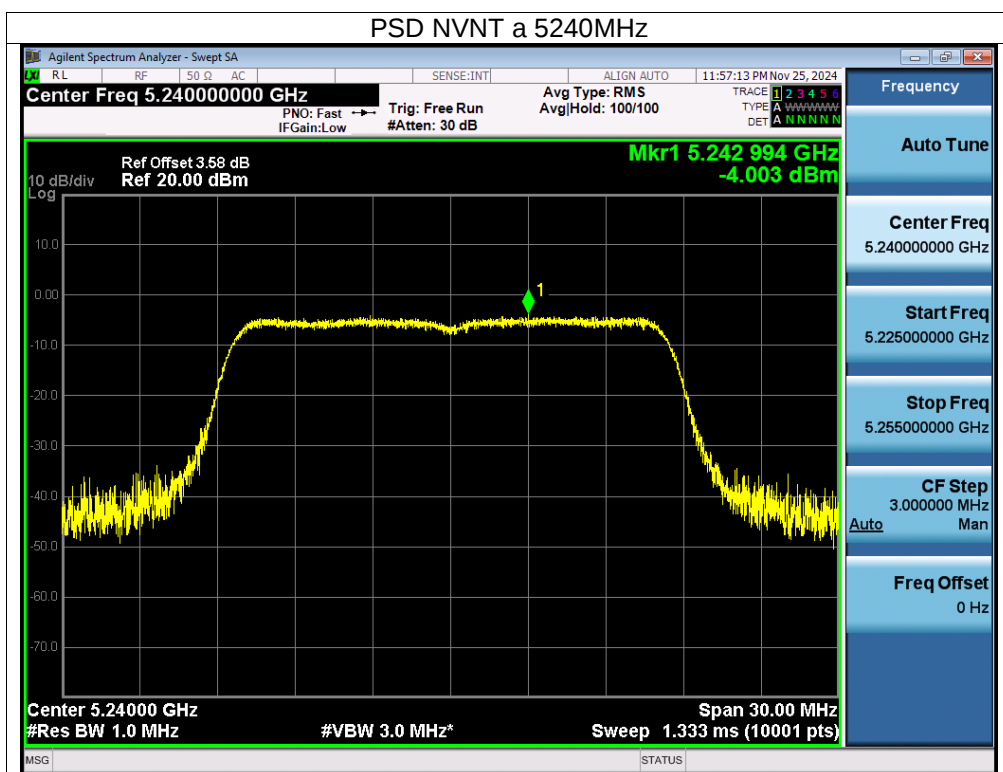
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.9V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

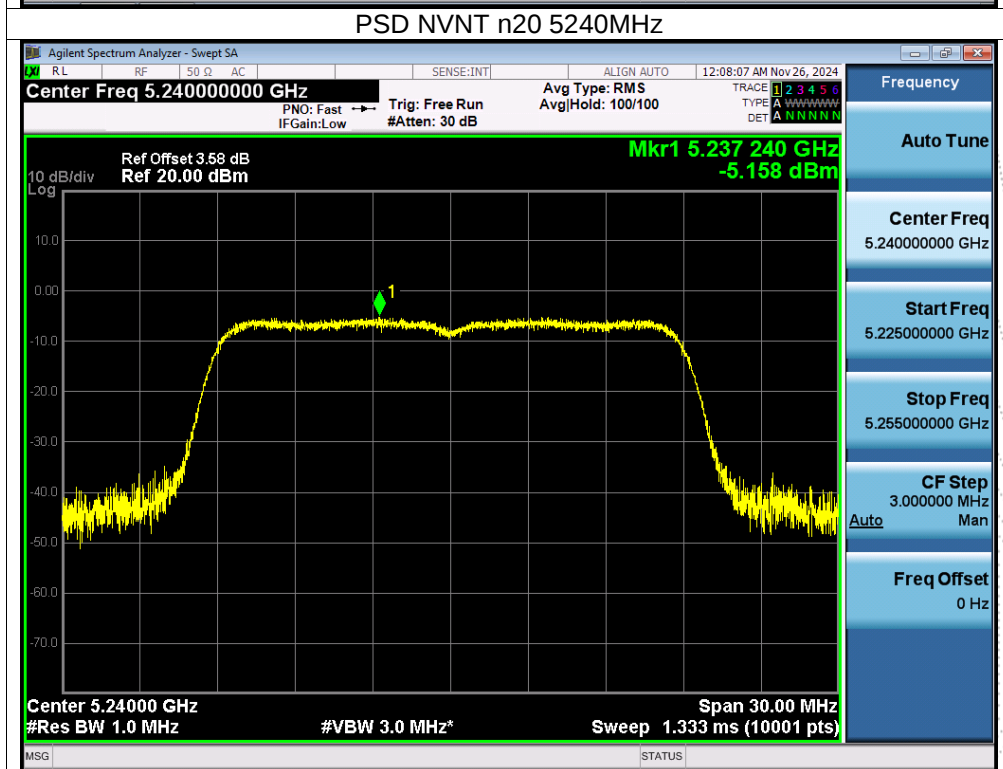
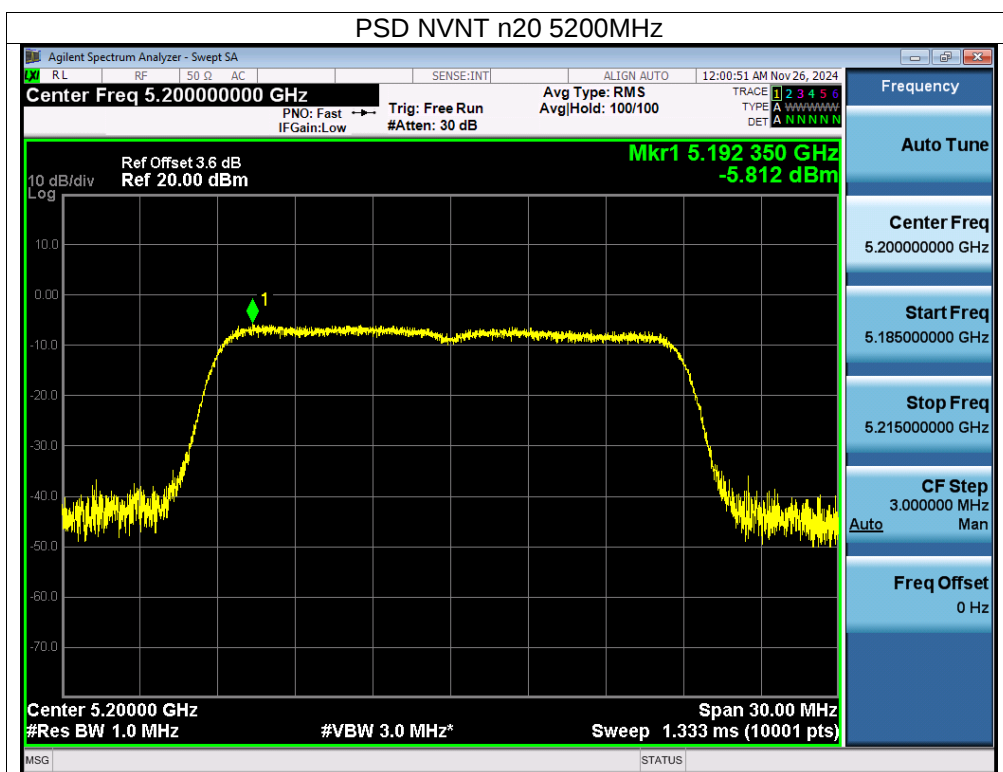
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-3.67	11	Pass
NVNT	a	5200	-4.17	11	Pass
NVNT	a	5240	-4	11	Pass
NVNT	n20	5180	-5.93	11	Pass
NVNT	n20	5200	-5.81	11	Pass
NVNT	n20	5240	-5.16	11	Pass
NVNT	n40	5190	-9.54	11	Pass
NVNT	n40	5230	-9.28	11	Pass
NVNT	ac20	5180	-4.28	11	Pass
NVNT	ac20	5200	-5.25	11	Pass
NVNT	ac20	5240	-5.43	11	Pass
NVNT	ac40	5190	-8.73	11	Pass
NVNT	ac40	5230	-9.28	11	Pass
NVNT	ac80	5210	-13.68	11	Pass

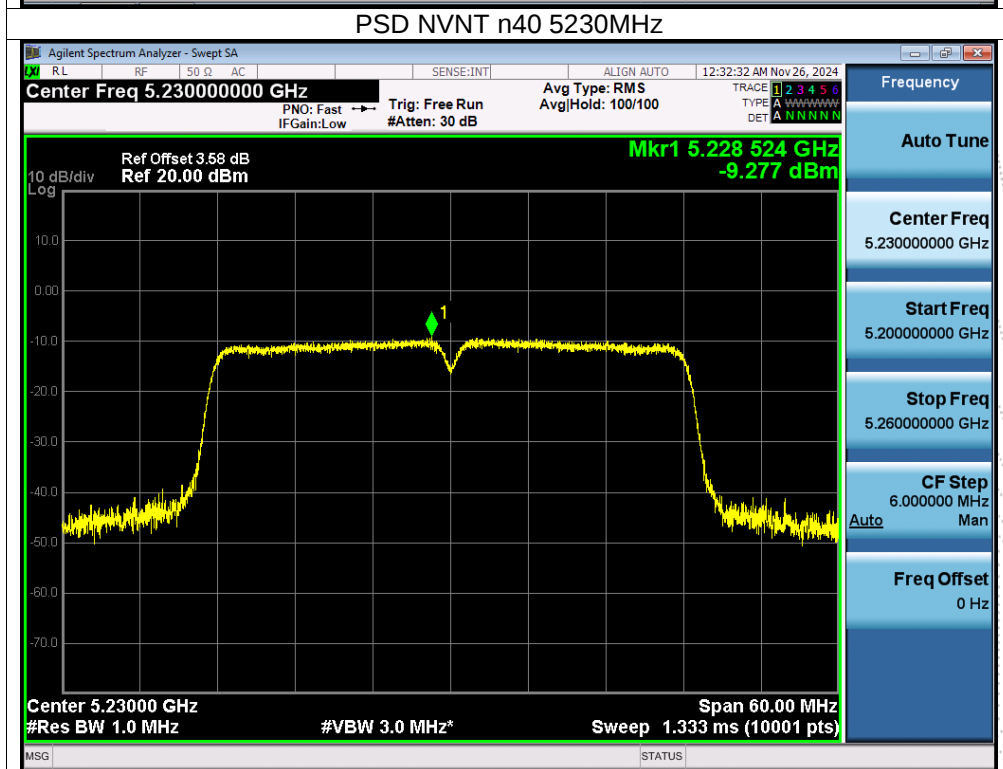
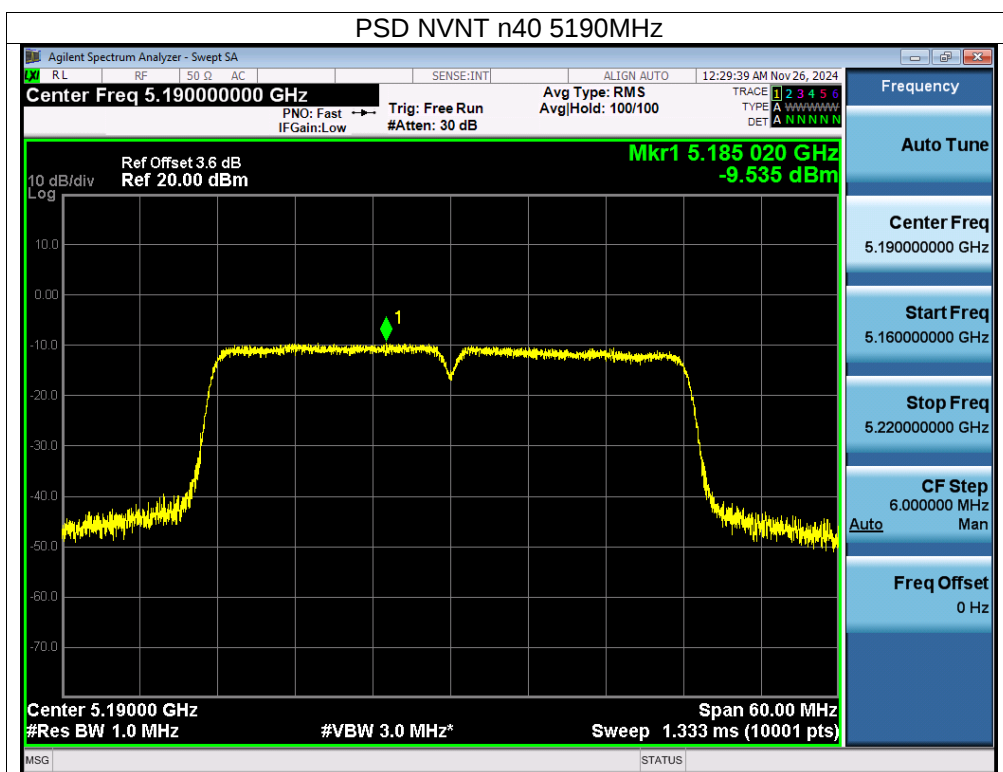
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-5.66	-5.746	30	Pass
NVNT	a	5785	-6.37	-6.456	30	Pass
NVNT	a	5825	-6.69	-6.776	30	Pass
NVNT	n20	5745	-7.83	-7.916	30	Pass
NVNT	n20	5785	-8.7	-8.786	30	Pass
NVNT	n20	5825	-8.67	-8.756	30	Pass
NVNT	n40	5755	-13.32	-13.406	30	Pass
NVNT	n40	5795	-13.52	-13.606	30	Pass
NVNT	ac20	5745	-7.88	-7.966	30	Pass
NVNT	ac20	5785	-9.01	-9.096	30	Pass
NVNT	ac20	5825	-8.95	-9.036	30	Pass
NVNT	ac40	5755	-13.04	-13.126	30	Pass
NVNT	ac40	5795	-13.22	-13.306	30	Pass
NVNT	ac80	5775	-18.43	-18.516	30	Pass

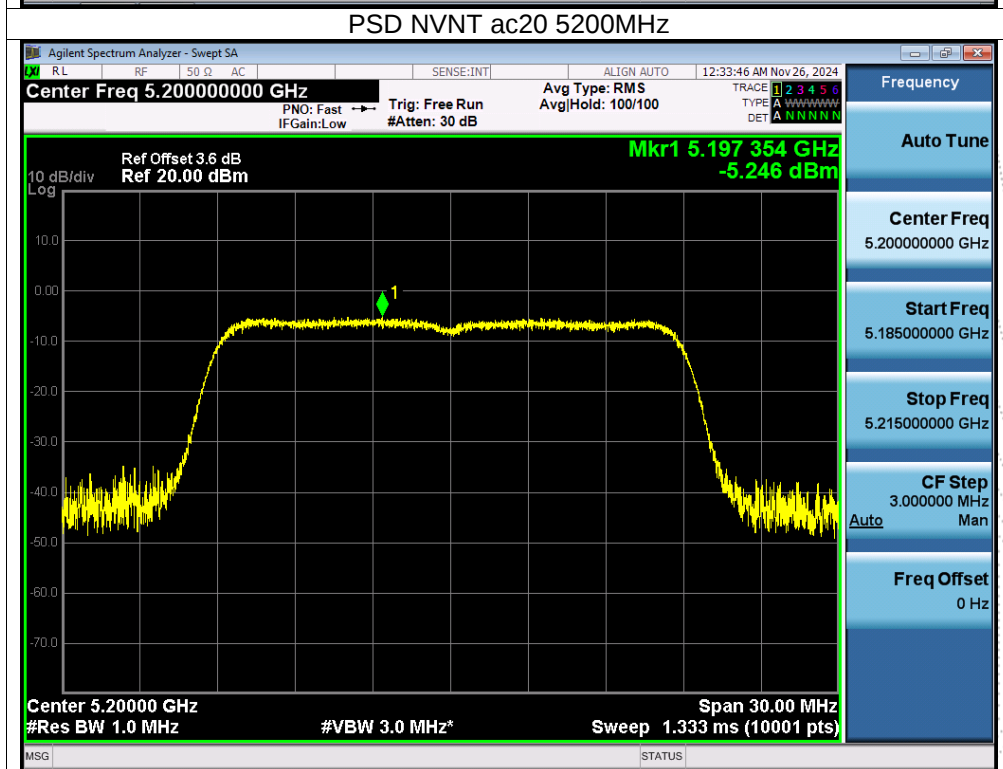
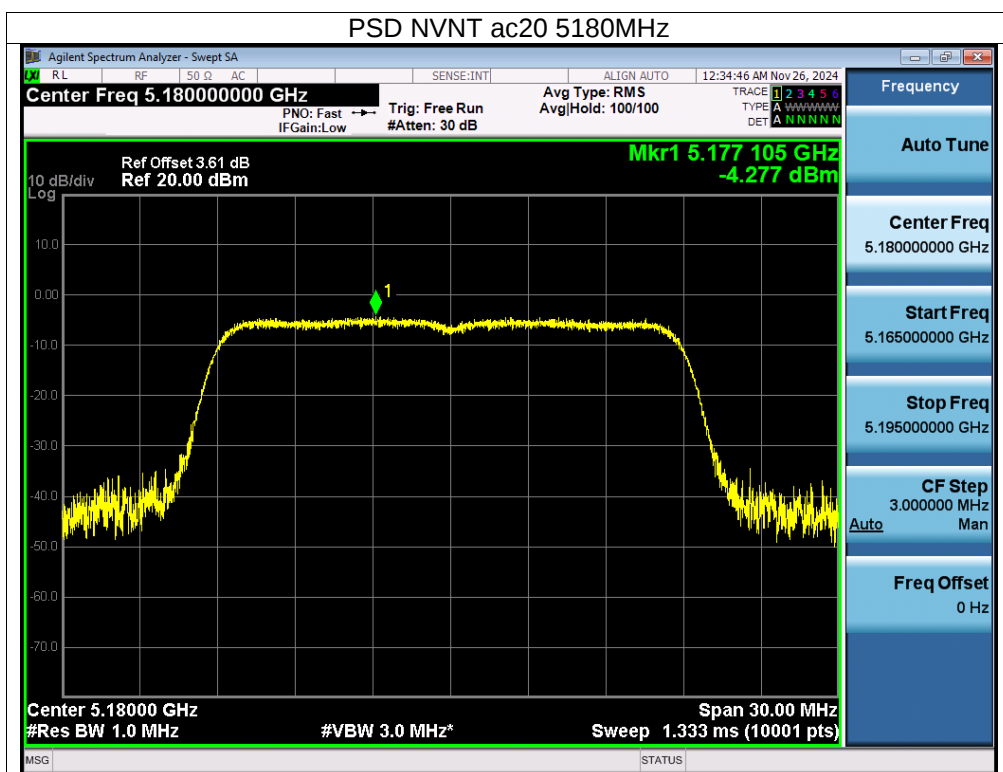
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

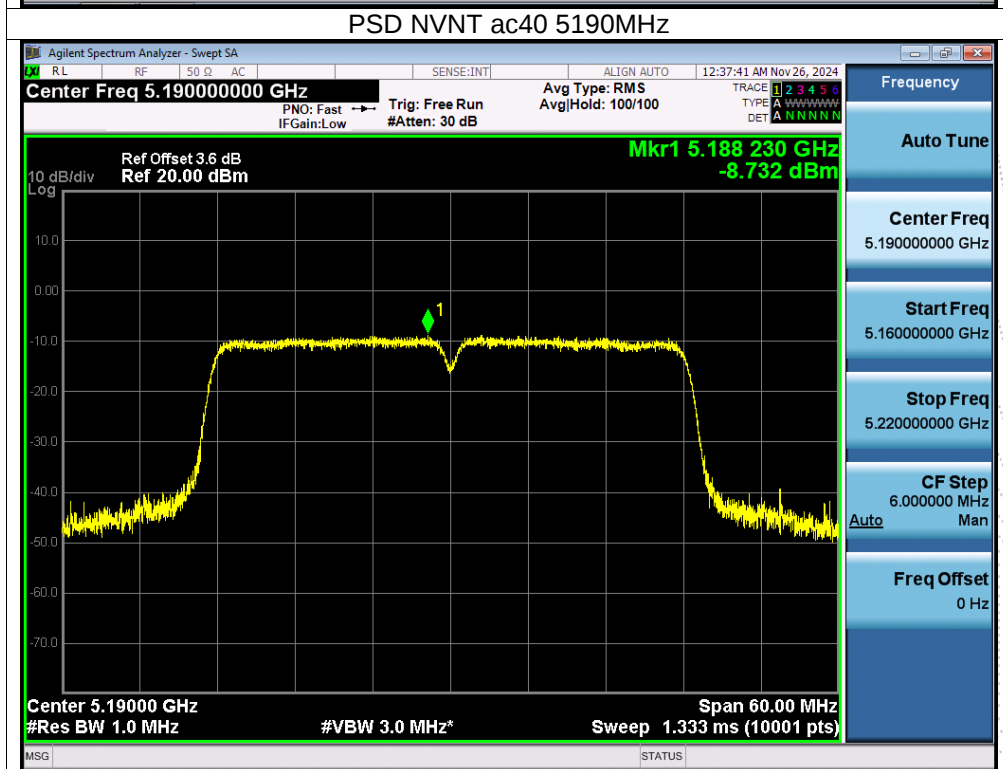
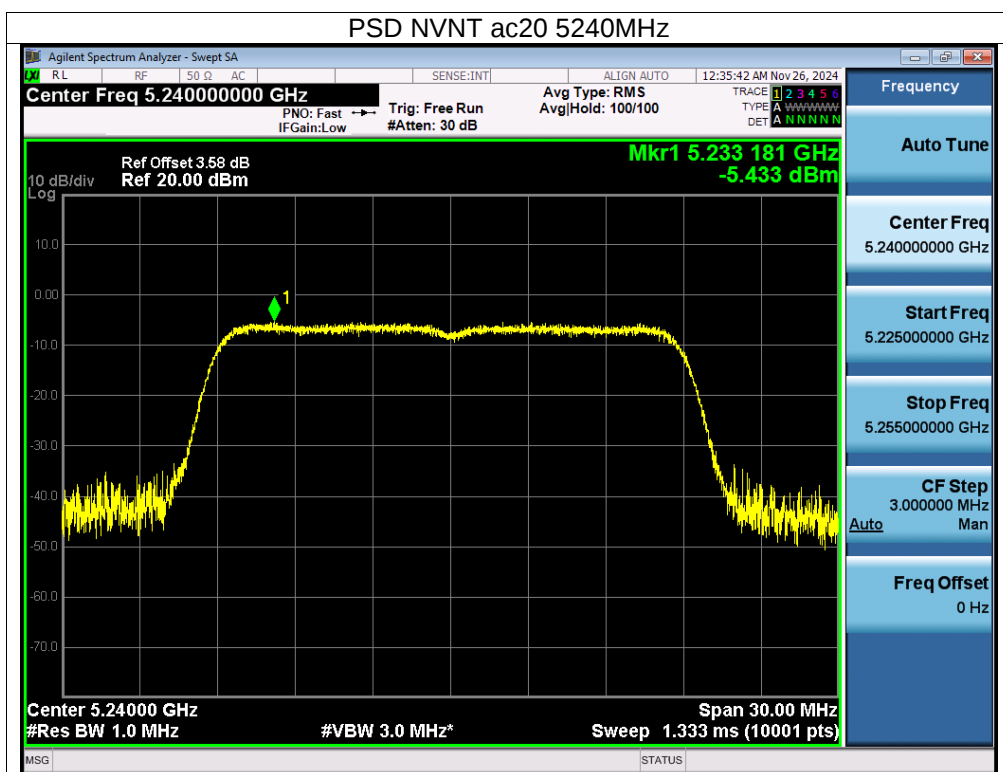


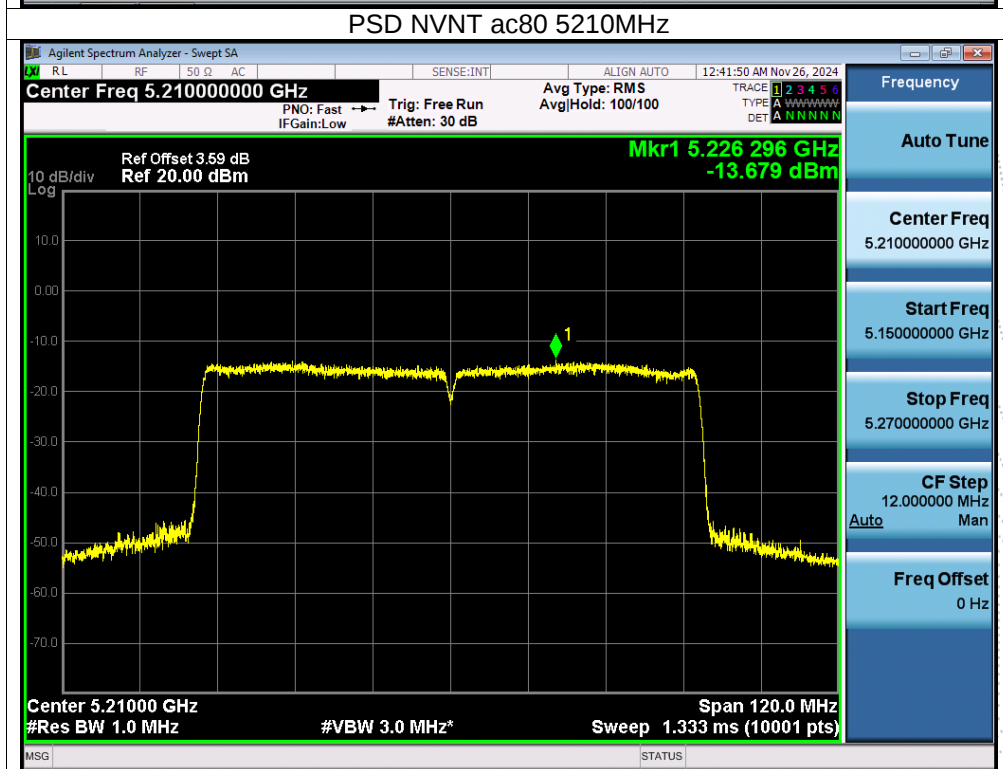
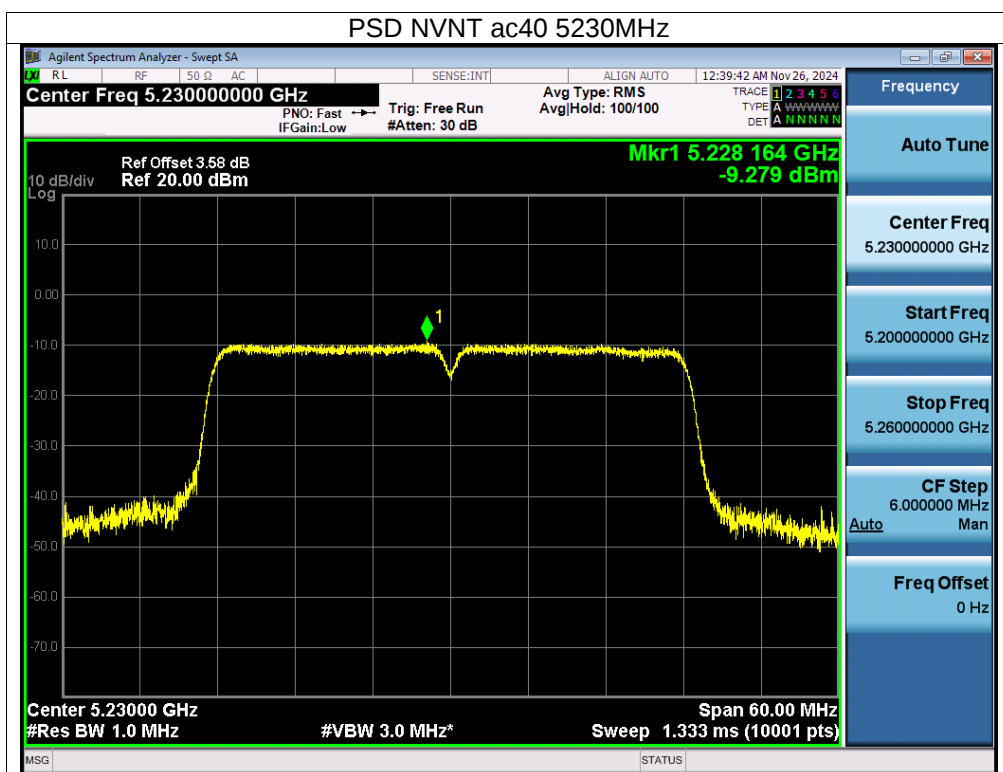


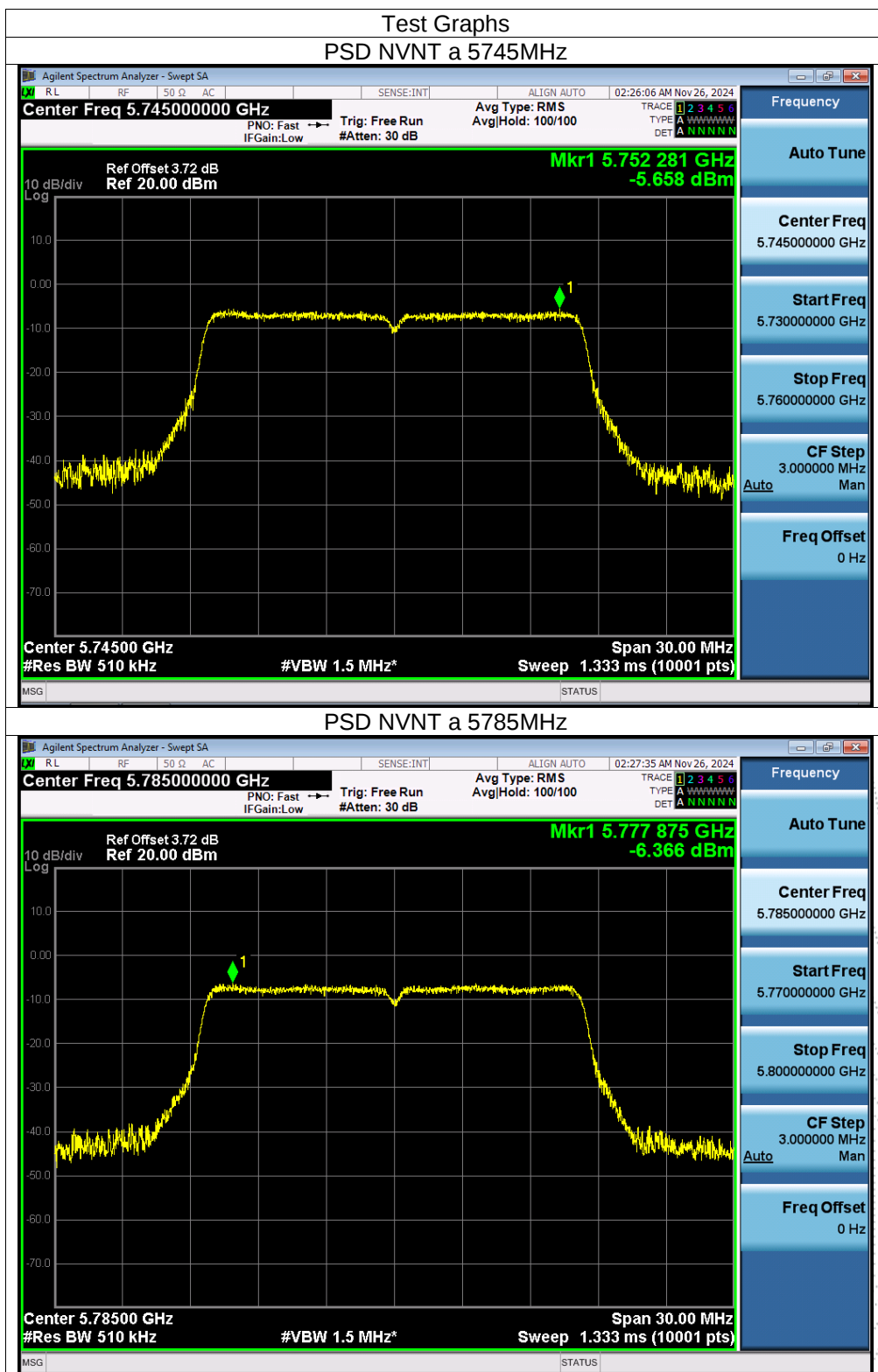


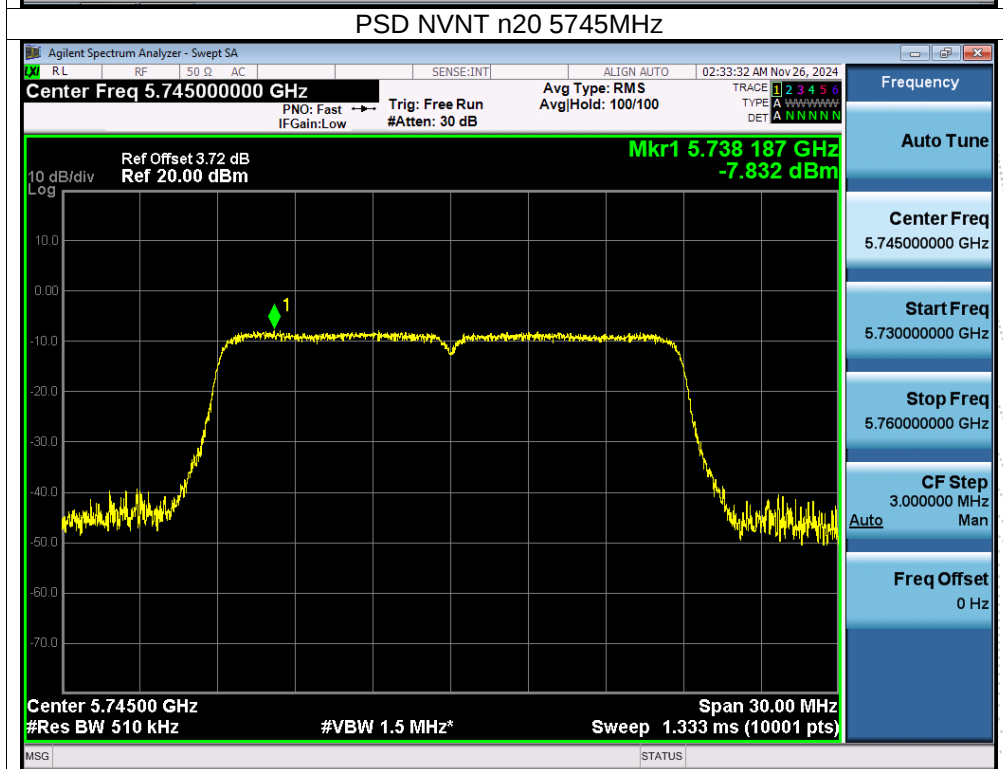
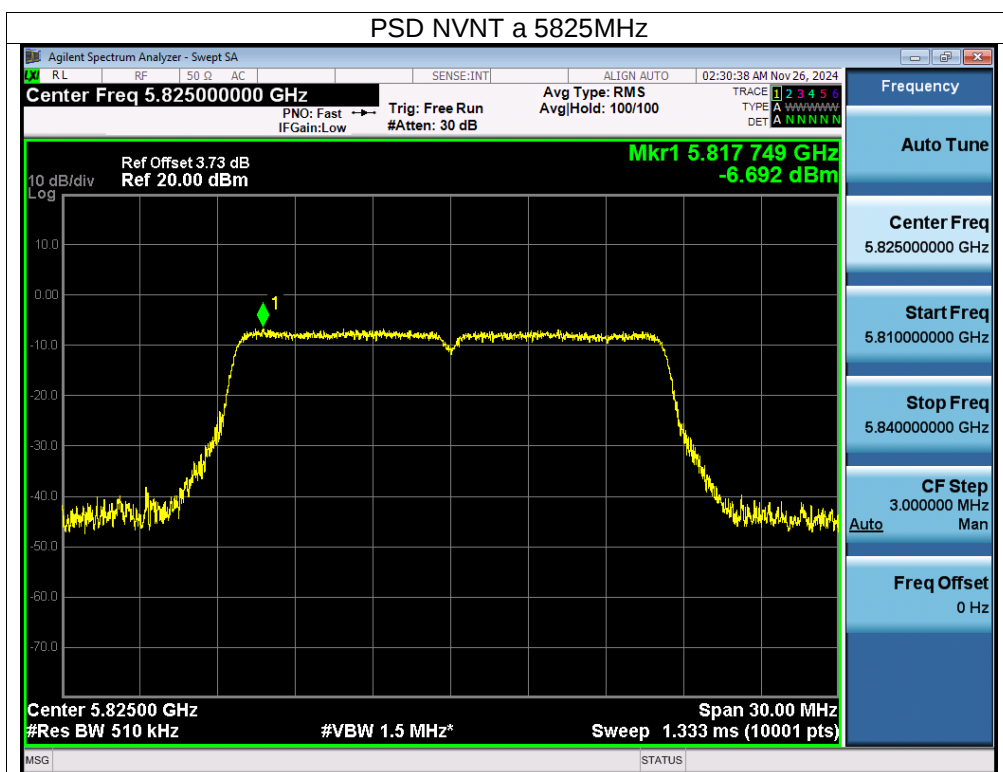


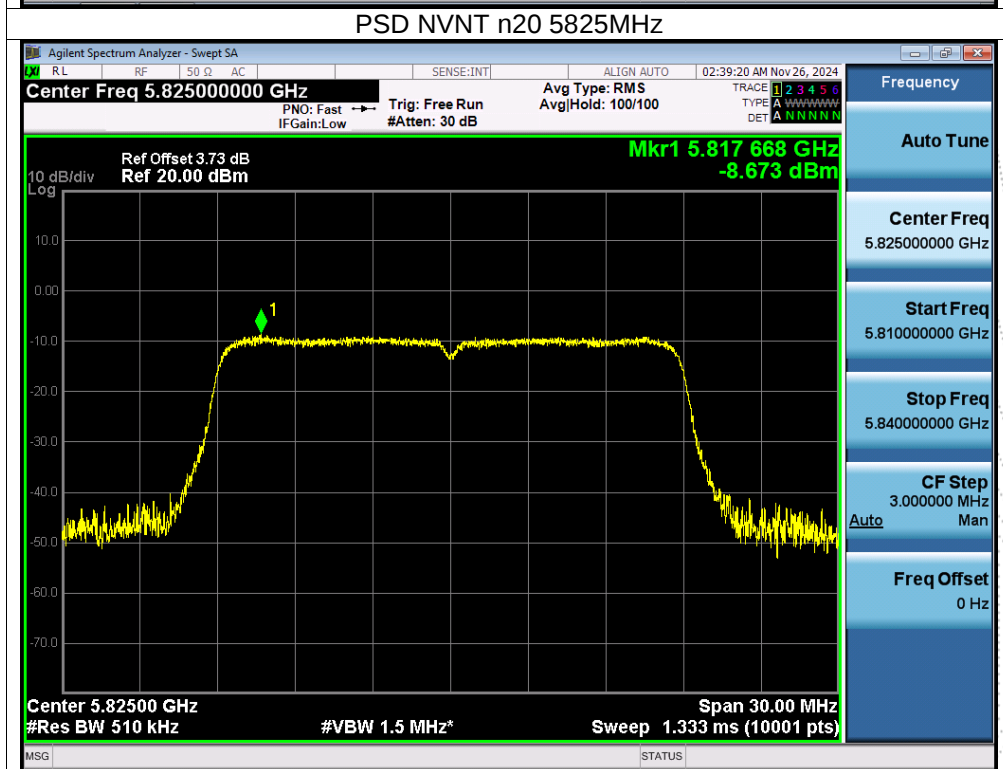
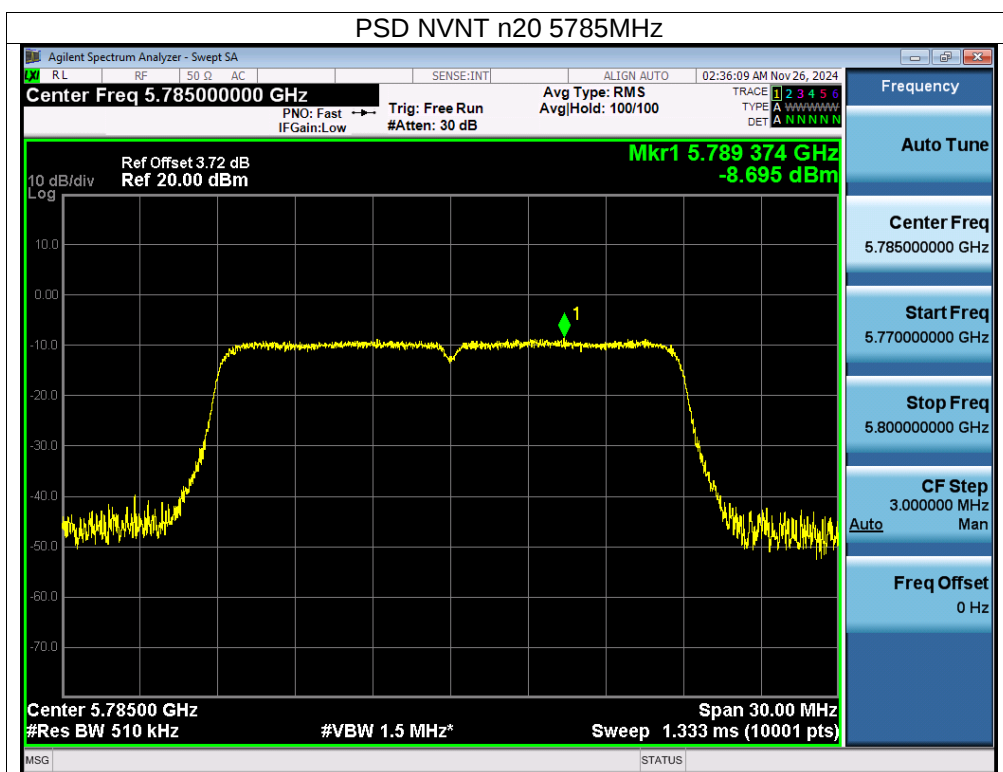


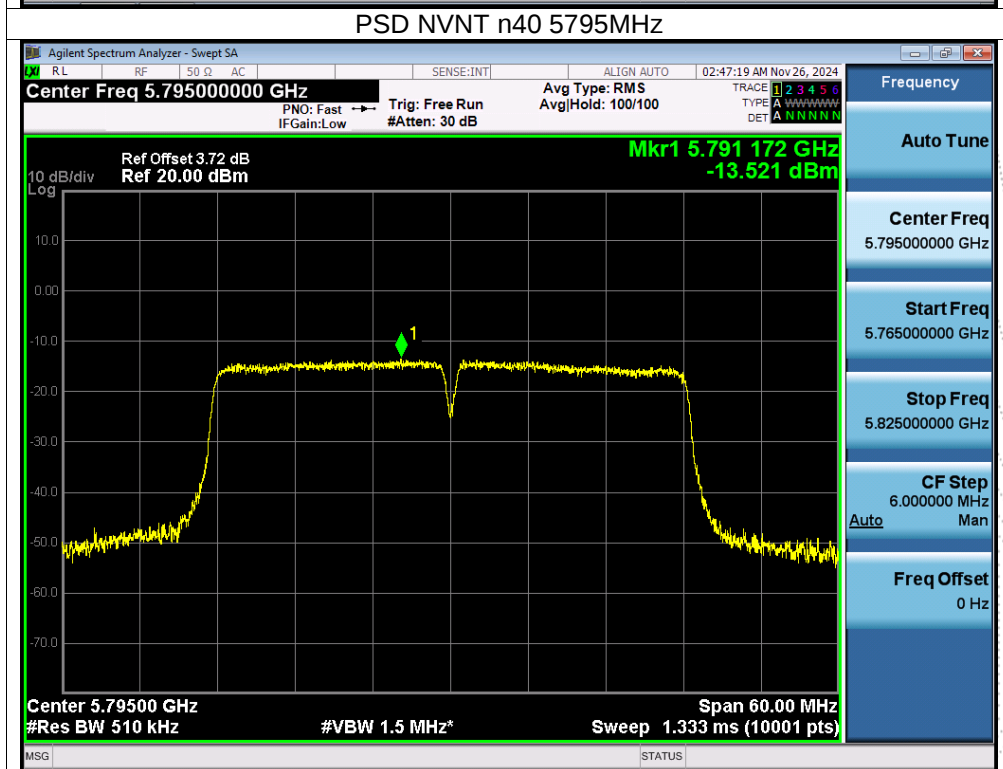
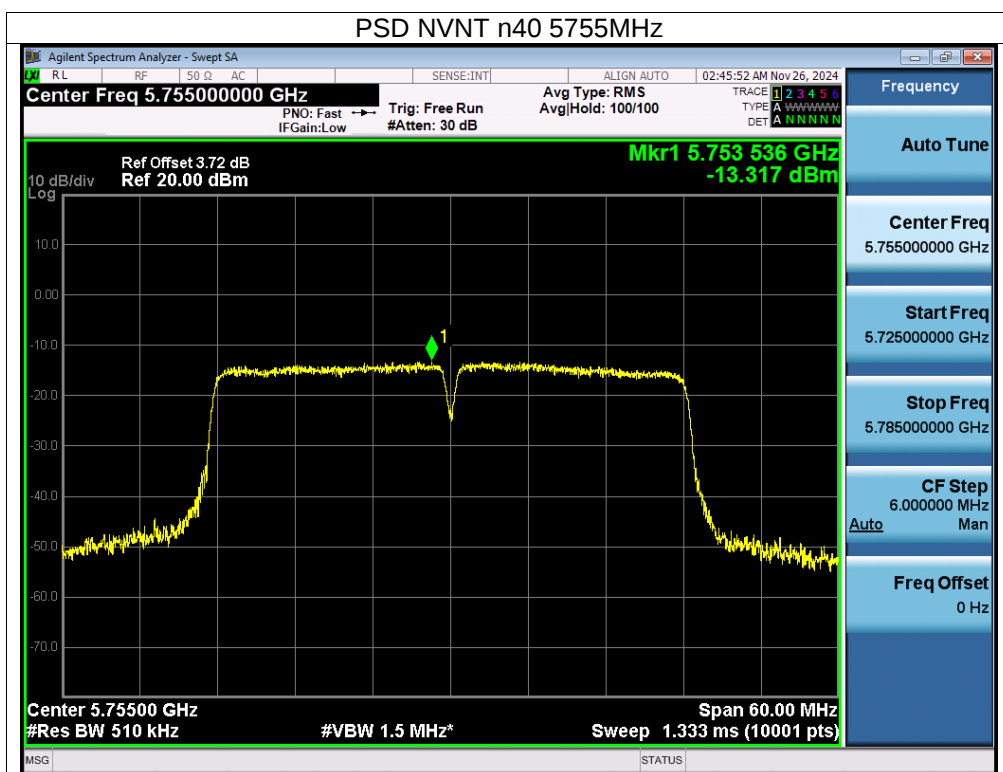


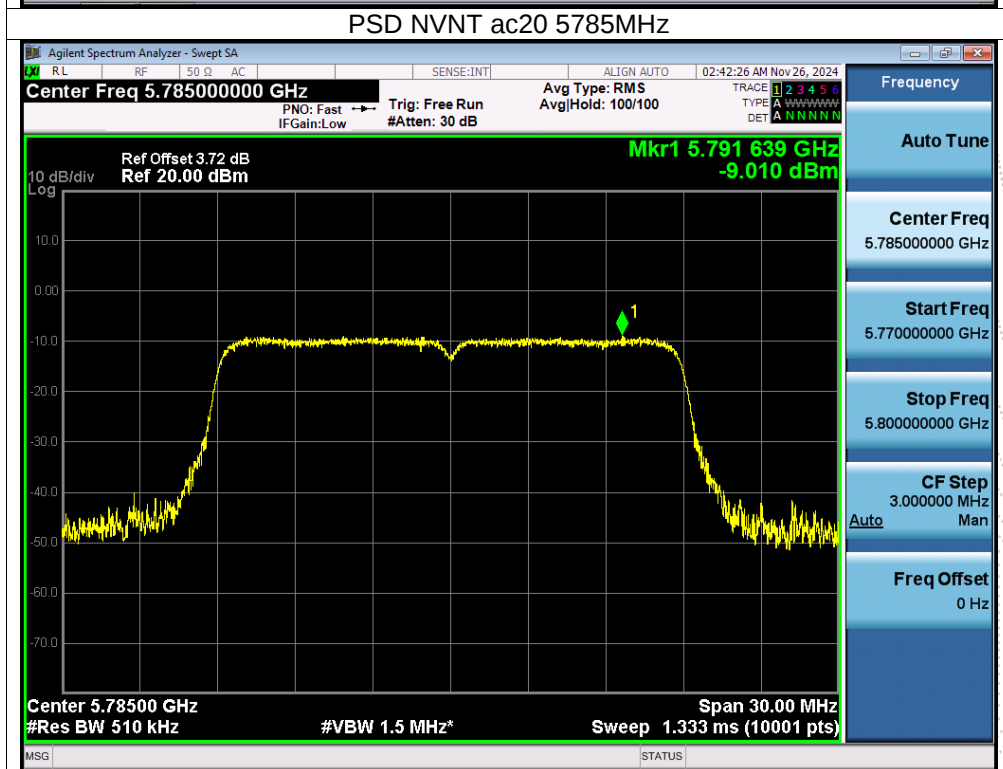
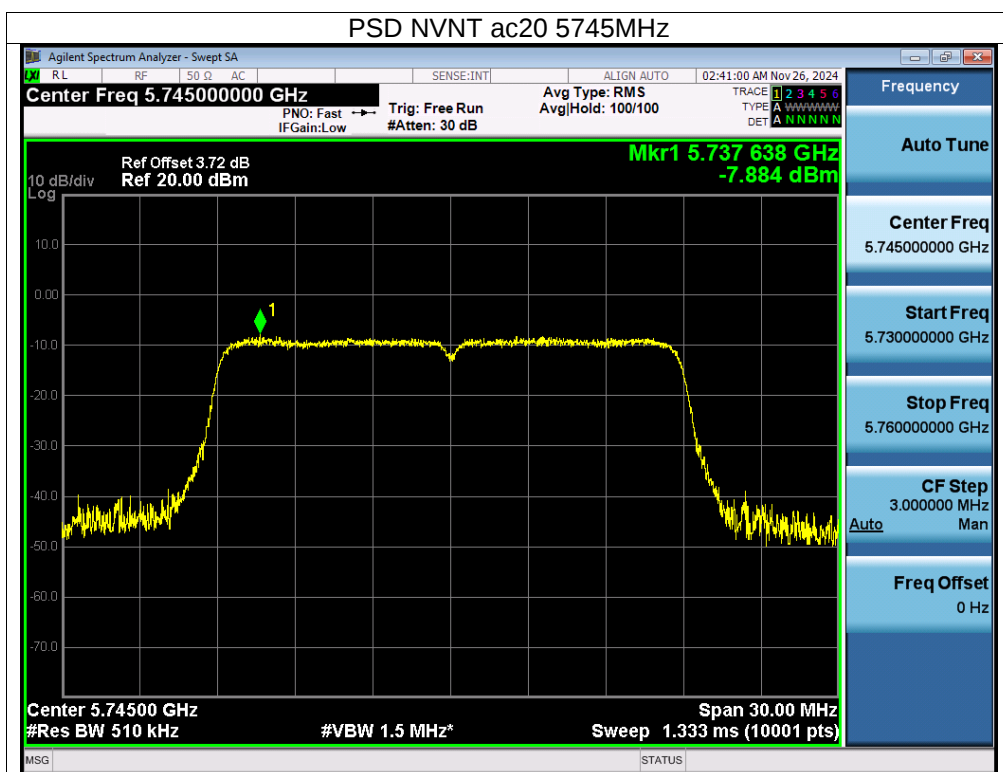


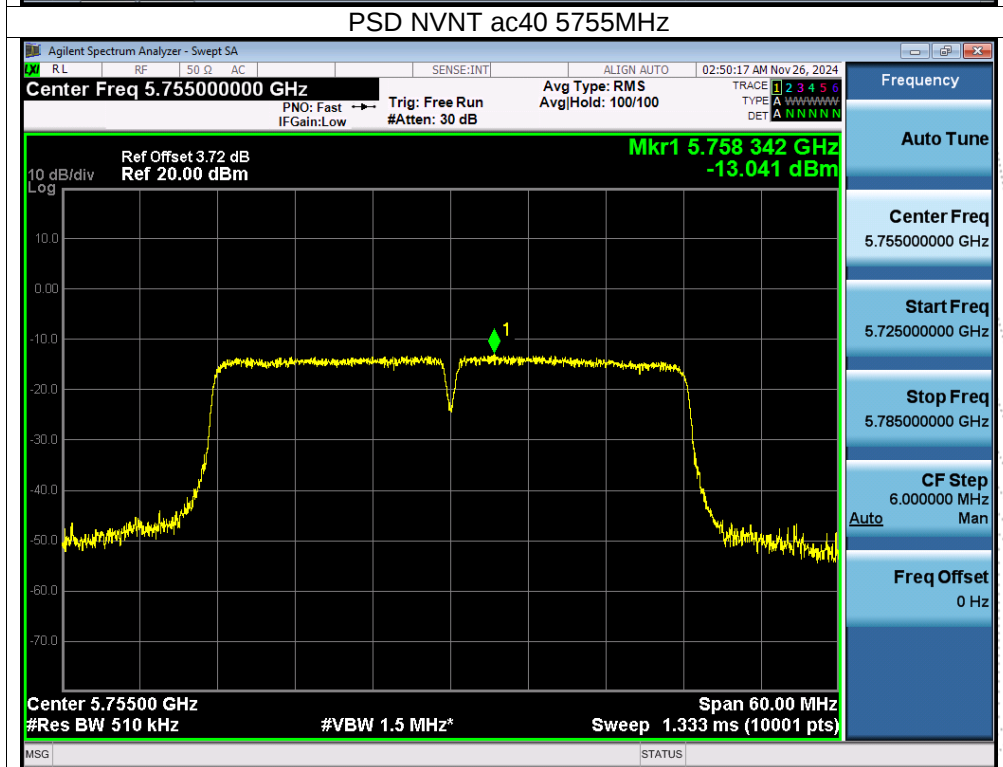
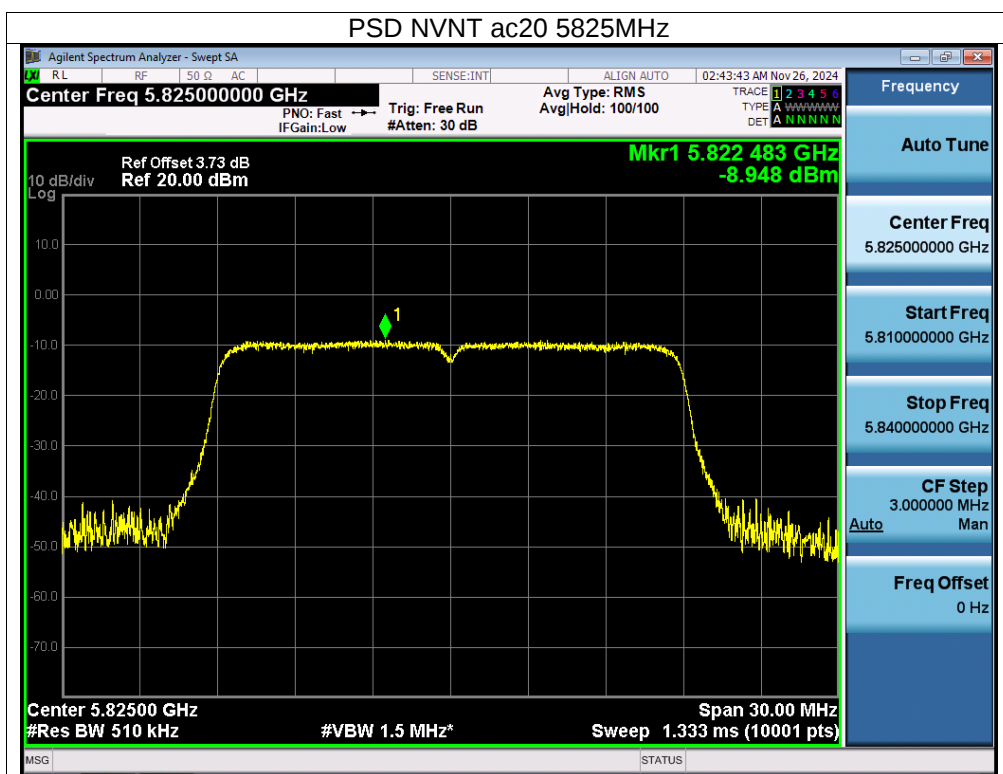


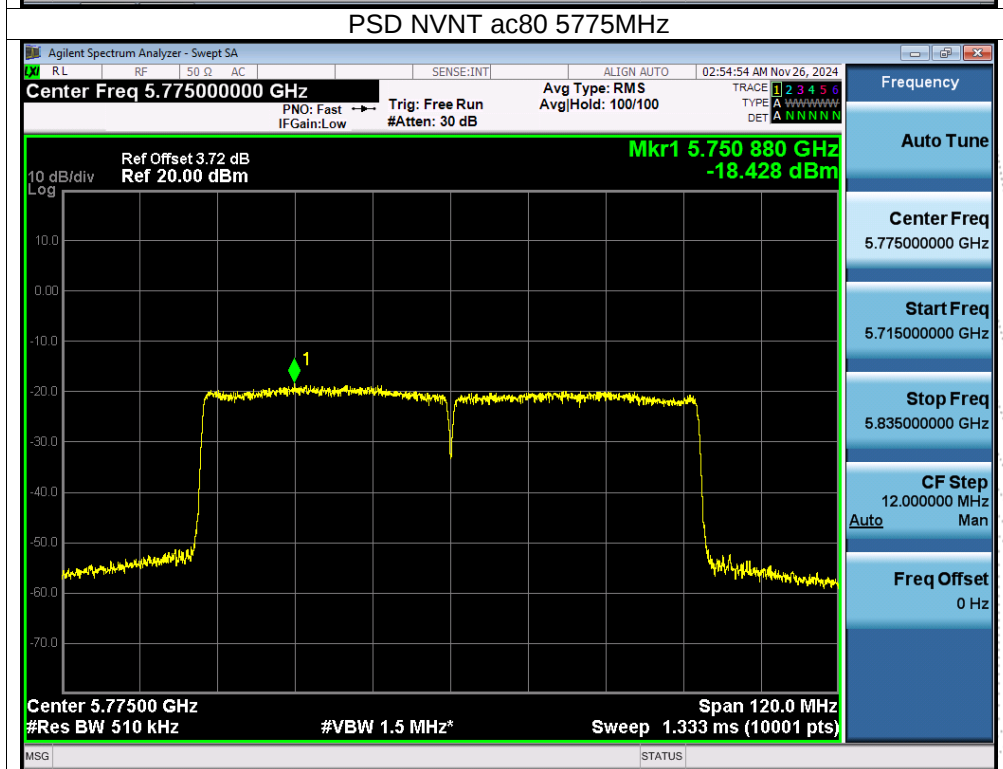
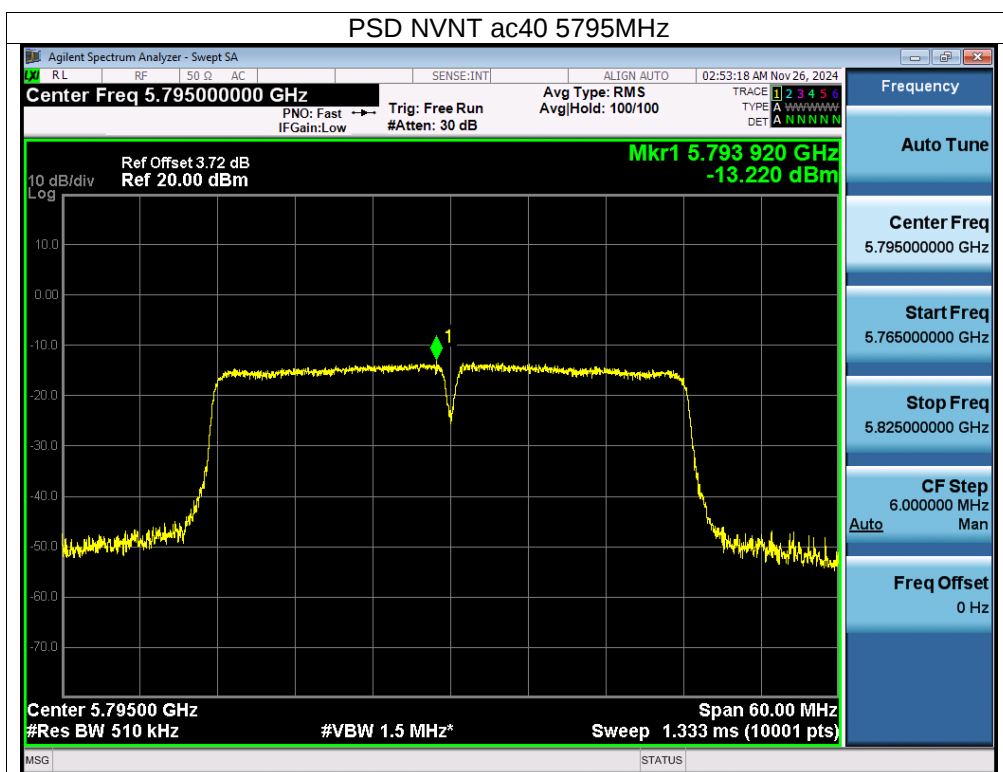






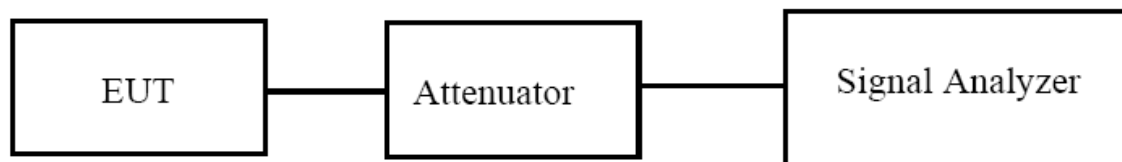






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

9.3 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6dB

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.9V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.535	20.106	Pass
NVNT	a	5200	16.533	22.141	Pass
NVNT	a	5240	16.544	22.407	Pass
NVNT	n20	5180	17.576	19.807	Pass
NVNT	n20	5200	17.598	21.408	Pass
NVNT	n20	5240	17.602	21.256	Pass
NVNT	n40	5190	36.16	40.42	Pass
NVNT	n40	5230	36.14	42.733	Pass
NVNT	ac20	5180	17.587	20.631	Pass
NVNT	ac20	5200	17.628	22.863	Pass
NVNT	ac20	5240	17.609	25.308	Pass
NVNT	ac40	5190	36.099	58.9	Pass
NVNT	ac40	5230	36.21	55.506	Pass
NVNT	ac80	5210	75.58	82.396	Pass

